



Co-Host:
Emiliano Bina
AiM-Sportline Software Developer

Webinar Series

Bringing Data Support and Training to You

Race Studio 3 Analysis
Info on Beta Software Release – Part 3

2020 Webinar #44

www.aimsports.com



YouTube

August 27th, 2020

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Emiliano Bina

AiM-Sportline Software Developer

- Studies in Vehicle Mechanics and Simulation
- Software Developer for AiM Since 2000
- Passion for Motorsport and Sim Racing



Feedback

- First of all we can say “many thanks” to all of you sending us feedbacks.
- Roughly we received 240 mails and 3 GB of data for inspecting issues, bad imports or data-mov not being linked.
- Bad imports and missing data-video links have been prioritized a little bit. Most of the issues regarding data-video links were bound to something unexpected in mov files. All issues have been addressed at this moment.
- Of all other feedbacks we can say that 50% are related to features available with RS2A and not in RS3A, an 50% are related to completely new features.

Bug Fixes vs New Features

• 2020 July 9th.

• 85% of our time analyzing feedbacks and fixing bugs

• 15% for new features

• 2020 July 28th.

• 50% feedbacks

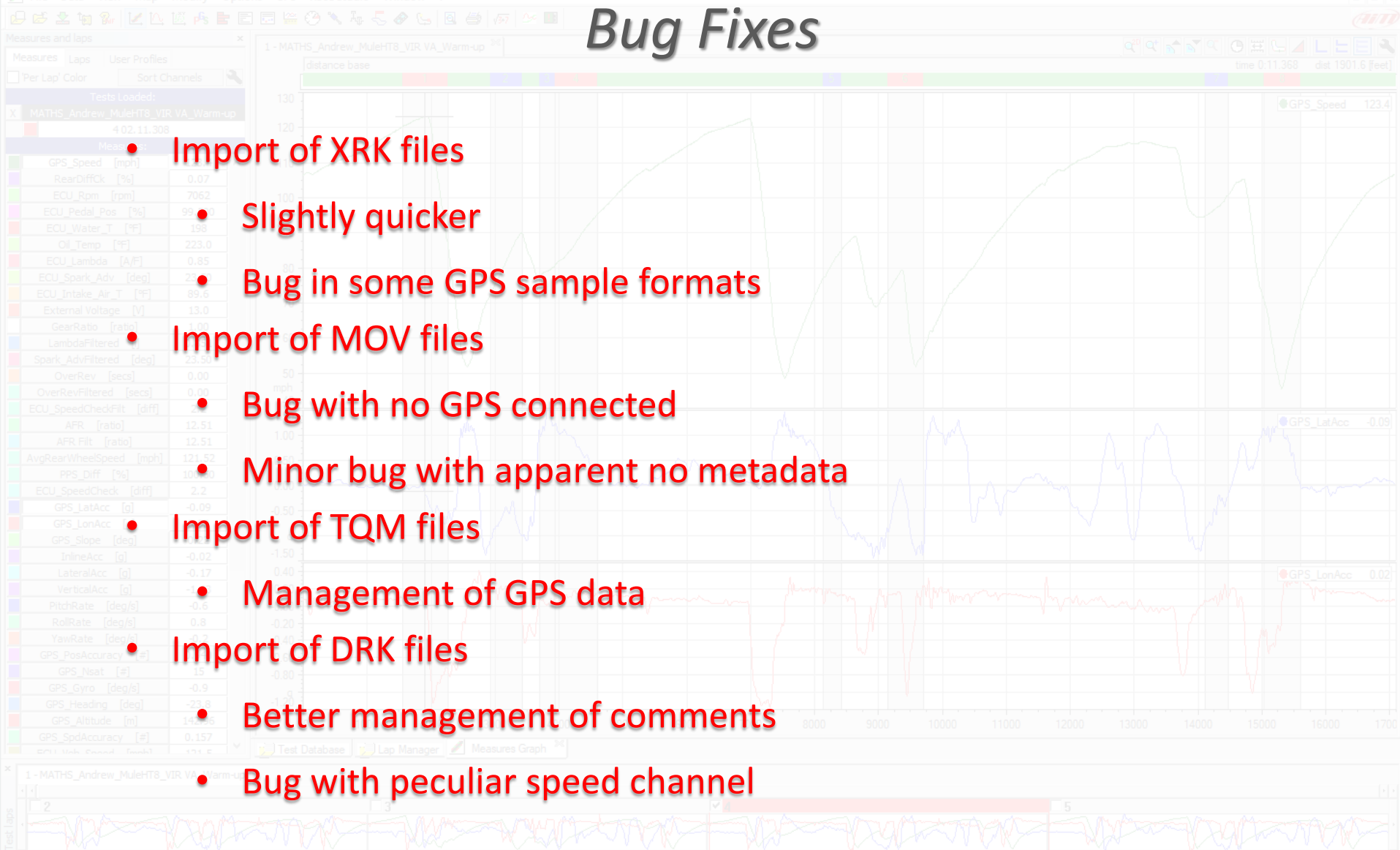
• 50% new features

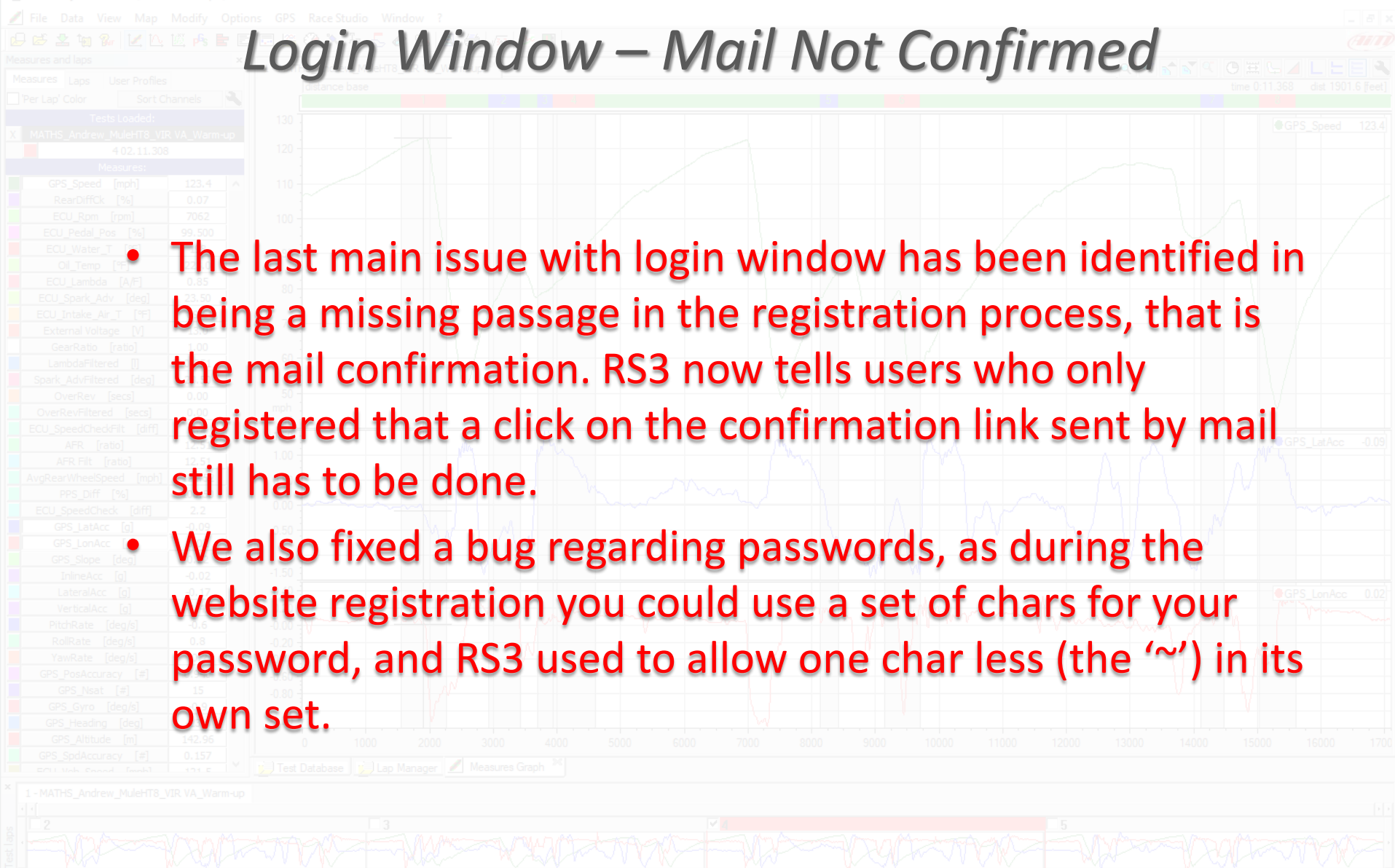
• 2020 August 27th. Currently working on...

• Graphs and Channels Settings

• Split management

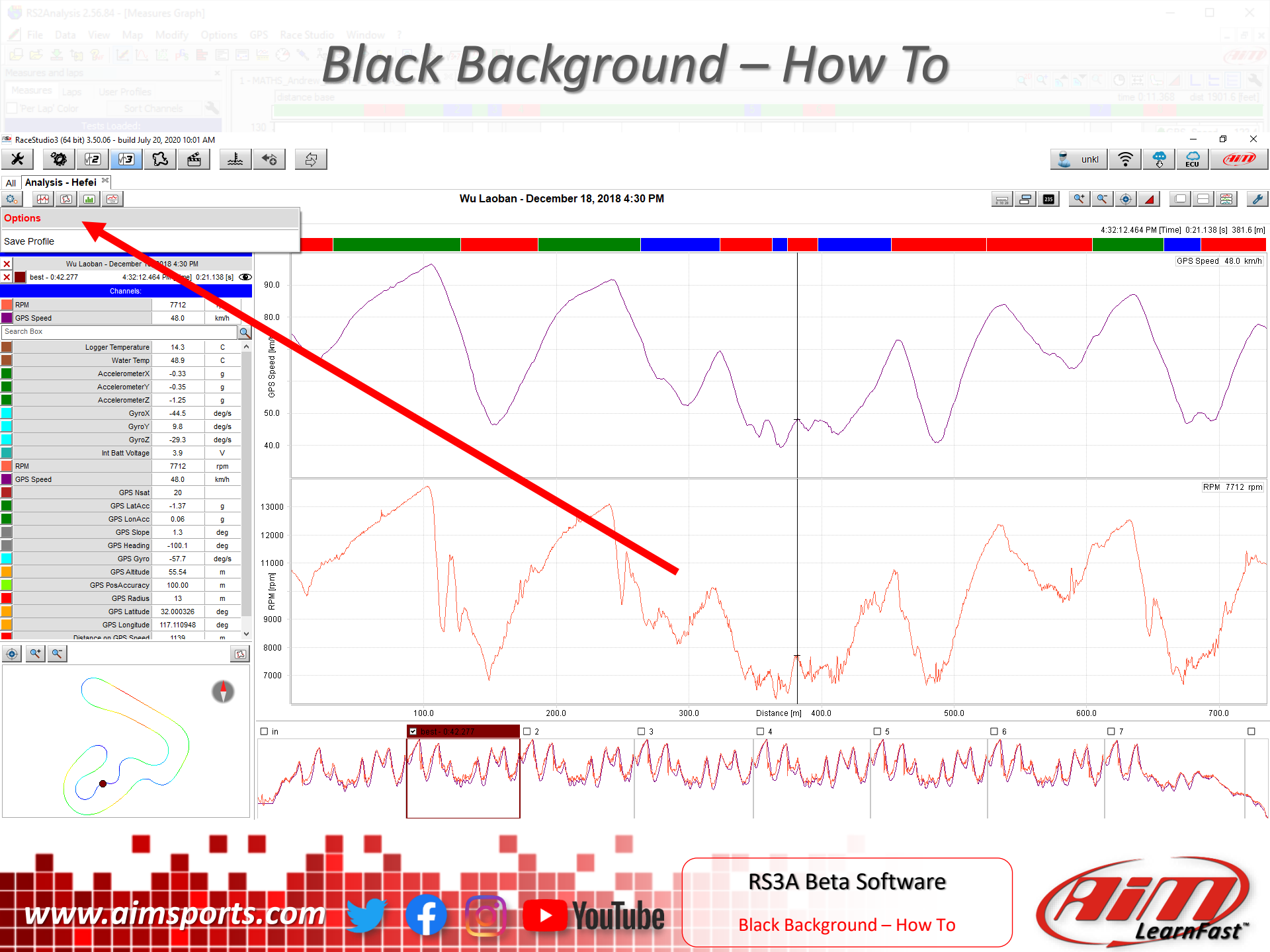
• Math Channels



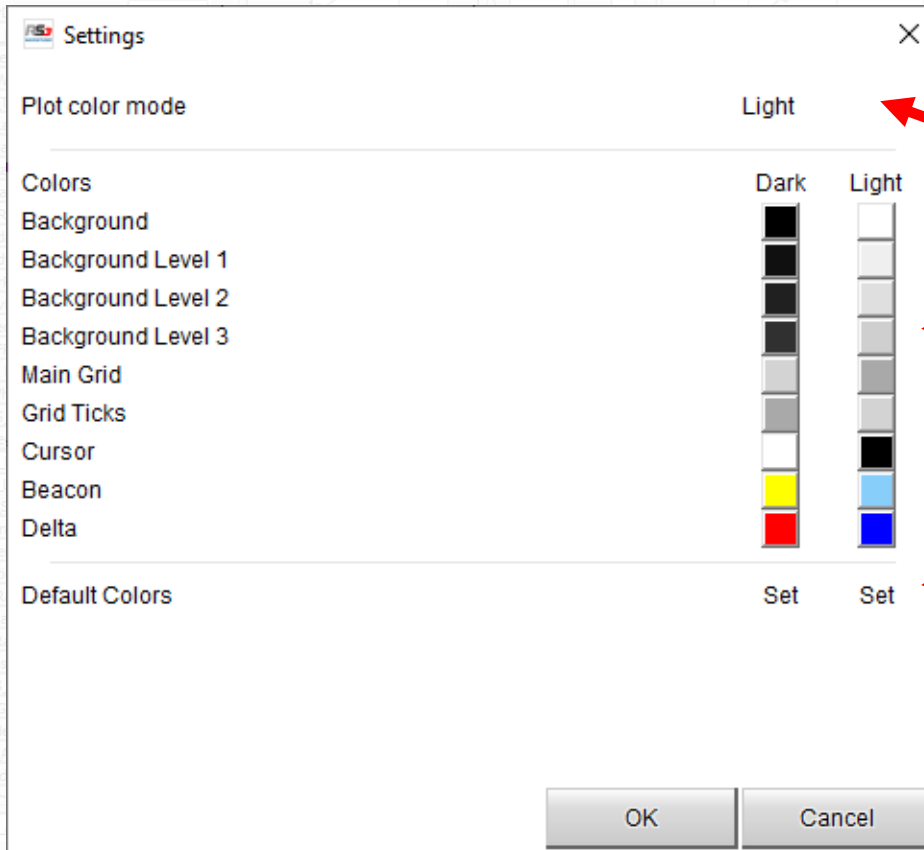


Cloud Services

- We know that many racers are using cloud services from different providers (DropBox, Microsoft, Google, ...) to share data.
- These services mainly have a process keeping data synchronized. These services are constantly running on their PC and might open/close data files while RS3 opens and modifies them.
- We received some feedbacks that led us to understand this, hence we made some modifications on order to avoid all possible file locks.
- Please raise your antennas on this and give us feedbacks in case you notice anything strange.



Black Background – How To



- You can choose which “theme” you want to use
- The color of a number of elements of the theme can be chosen for either white or black
- There’s the possibility to go back to AiM defaults (hitting the ‘set’ button)

Black Background – Time/Distance

RaceStudio3 (64 bit) dev - build August 21, 2020 11:59 AM



All Analysis - GIC



MK3-175 - Aug 03 5:01 PM



Time-Distance

Main Channels Laps

Sessions Loaded:

MK3-175 - Aug 03 5:01 PM

best - 1:27.785 5:05:20.202 PM [Time] 0:43.892 [s]

Channels:

RPM ENG 5217 rpm

V WHL RL 88.2 km/h

Search Box

Logger Temperature 34.8 C

External Voltage 13.4 V

P BRK FRONT -0.00 bar

P BRK REAR 0.76 bar

P ENG OIL 3.89 bar

P ENG FUEL 112.32 inHg

AccelerometerX -0.00 g

AccelerometerY -0.36 g

Luminosity 5.89 %

Brk Balance 0.00 %

RPM ENG 5217 rpm

V WHL RL 88.2 km/h

V WHL RR 88.9 km/h

V WHL FL 90.3 km/h

V WHL FR 90.4 km/h

GEAR 3 gear

A STE -24.1 deg

POS GBX LEVER 14 #

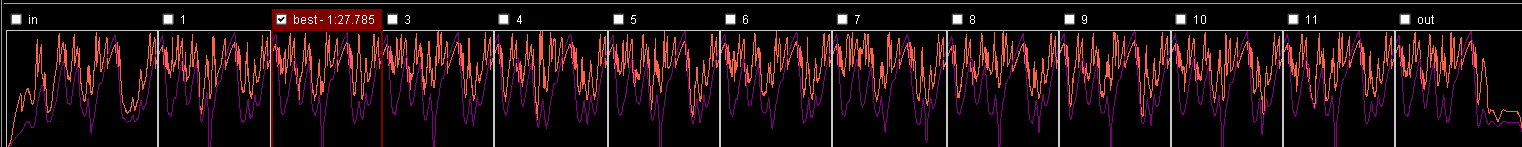
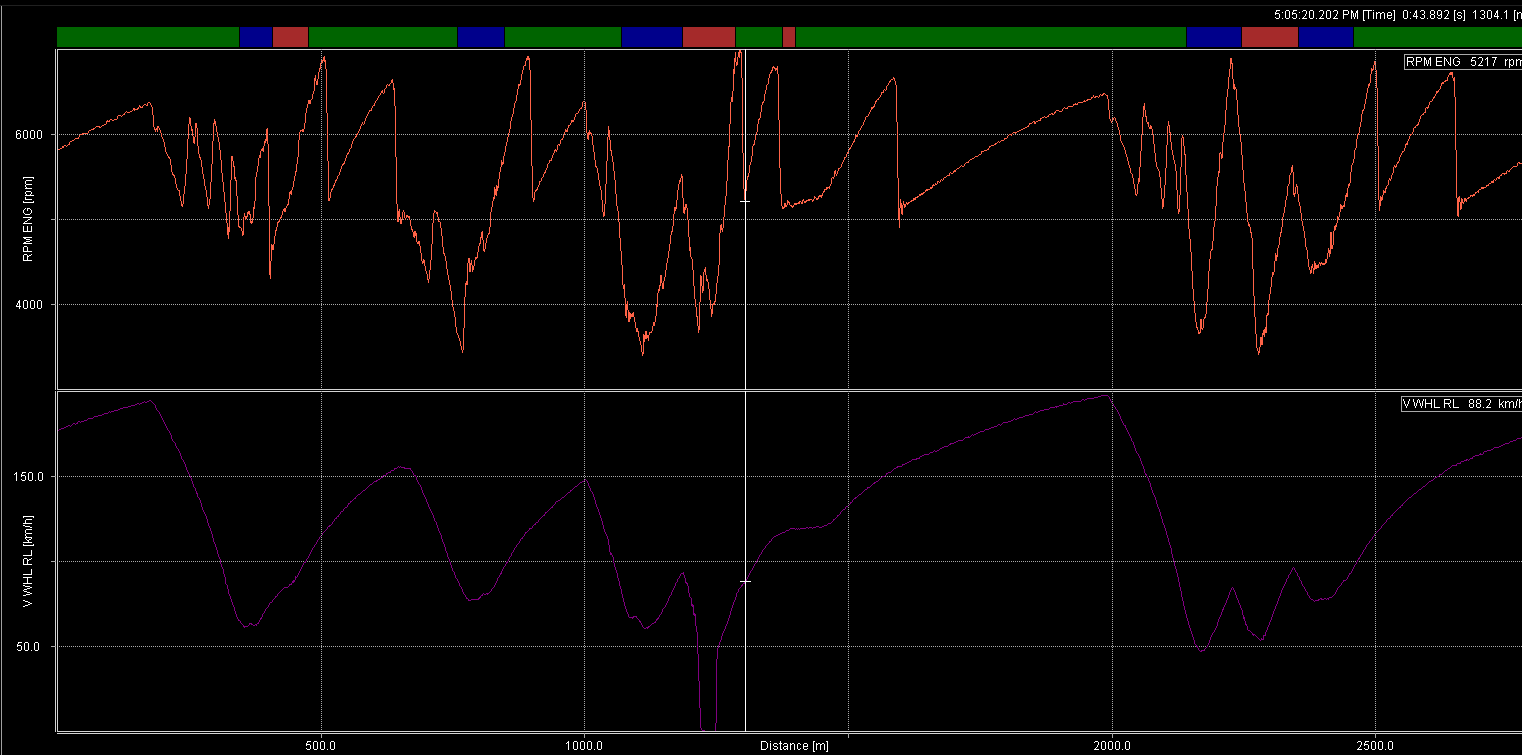
G CH Y 0.71 g

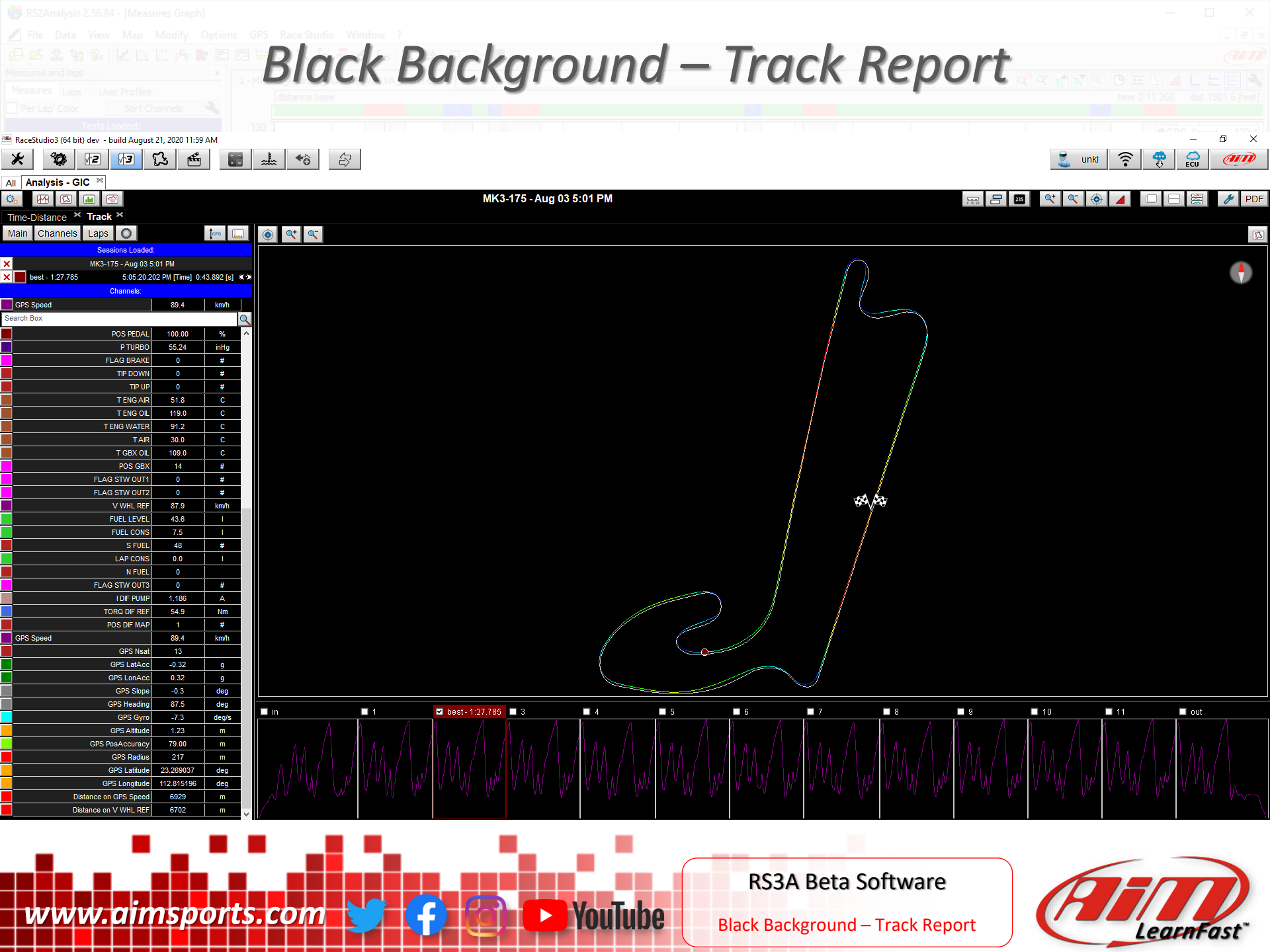
G CH X 0.29 g

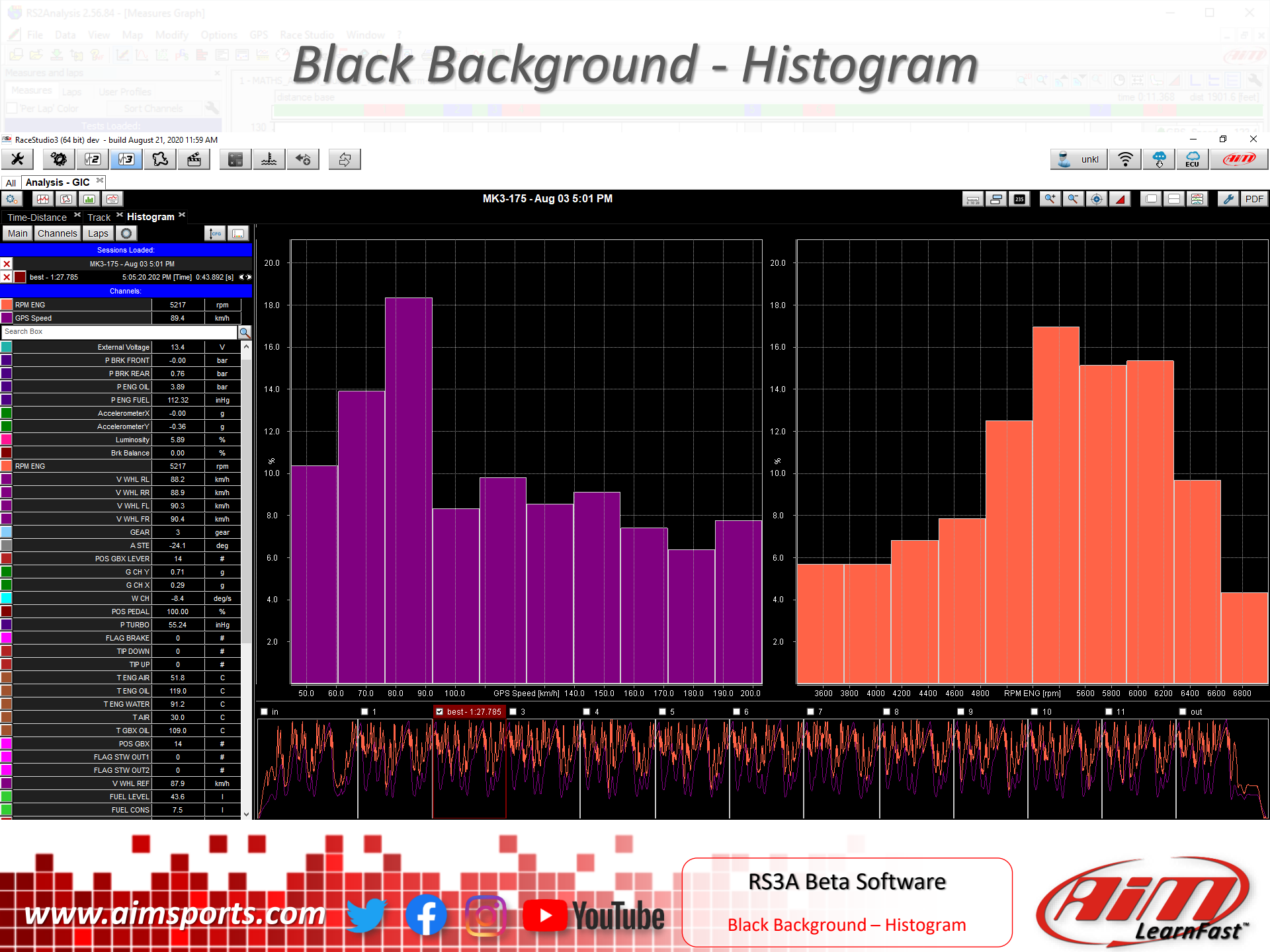
W CH -8.4 deg/s

POS PEDAL 100.00 %

P TUBRN 55.24 inHg







Black Background – Channels Report

RaceStudio3 (64 bit) dev - build August 21, 2020 11:59 AM



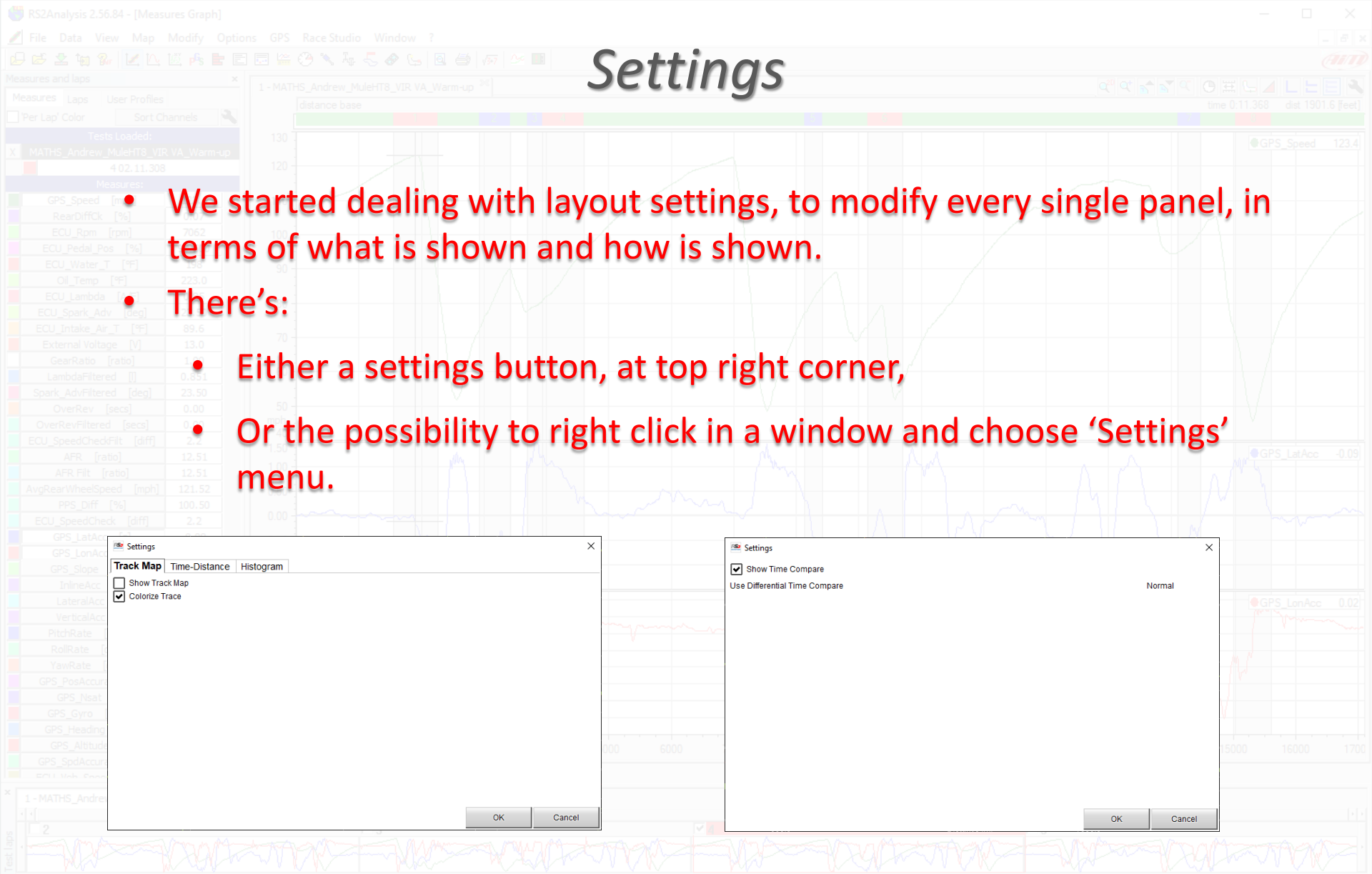
All Analysis - GIC

MK3-175 - Aug 03 5:01 PM



	Lap	Time	[m]	T ENG WATER [C]	AccelerometerX [g]	P BRK FRONT [bar]	Add/Remove
				Max	Avg	Max	
☒	1	1:59.905	2863.6	90.8	0.04	50.1	
☒	2	1:29.404	2772.4	92.3	0.00	62.1	
☒	3	1:27.785	2768.8	93.0	-0.00	63.1	
☒	4	1:27.823	2778.9	96.0	-0.02	67.9	
☒	5	1:30.634	2781.4	95.3	-0.02	63.1	
☒	6	1:28.279	2774.8	95.3	0.00	66.6	
☒	7	1:28.278	2769.0	95.3	-0.01	60.2	
☒	8	1:30.799	2769.4	96.0	-0.01	63.8	
☒	9	1:28.559	2771.2	96.0	-0.01	61.2	
☒	10	1:27.916	2789.4	95.3	-0.01	64.9	
☒	11	1:28.675	2774.6	95.3	-0.01	65.4	
☒	12	1:28.277	2772.6	94.5	-0.02	64.4	
☒	13	1:50.639	2658.3	96.8	-0.07	64.5	





Time/Distance Plot Settings

Measures and laps

Measures Laps User Profiles

☐ Per Lap Color
 ☐ Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

Measures:

GPS_Speed [mph] 123.4

RearDiffCk [%] 0.07

ECU_Rpm [rpm]

ECU_Pedal_Pos []

ECU_Water_T [°F]

Oil_Temp [°F] 223.0

ECU_Lambda [A/F] 14.85

ECU_Spark_Adv [°] 23.50

ECU_Intake_Air_T [°F]

External Voltage [V] 13.0

GearRatio [ratio] 1.00

LambdaFiltered [] 0.851

Spark_AdvFiltered [deg] 23.50

OverRev [secs] 0.00

OverRevFiltered [secs] 0.00

ECU_SpeedCheckFilt [diff] 2.2

AFR [ratio] 12.51

AFR_Filt [ratio] 12.51

AvgRearWheelSpeed [mph] 121.52

RPS_Diff [%] 100.50

ECU_SpeedCheck [diff] 2.2

GPS_LatAcc [g] -0.09

GPS_LonAcc [g] 0.02

GPS_Slope [deg] 0.22

InlineAcc [g] -0.02

LateralAcc [g] -0.17

VerticalAcc [g] -1.43

PitchRate [deg/s] -0.6

RollRate [deg/s] 0.8

YawRate [deg/s] -0.2

GPS_PosAccuracy [#] 0.940

GPS_Neat [#] 15

GPS_Gyro [deg/s] -0.9

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

GPS_SpdAccuracy [#] 0.157

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

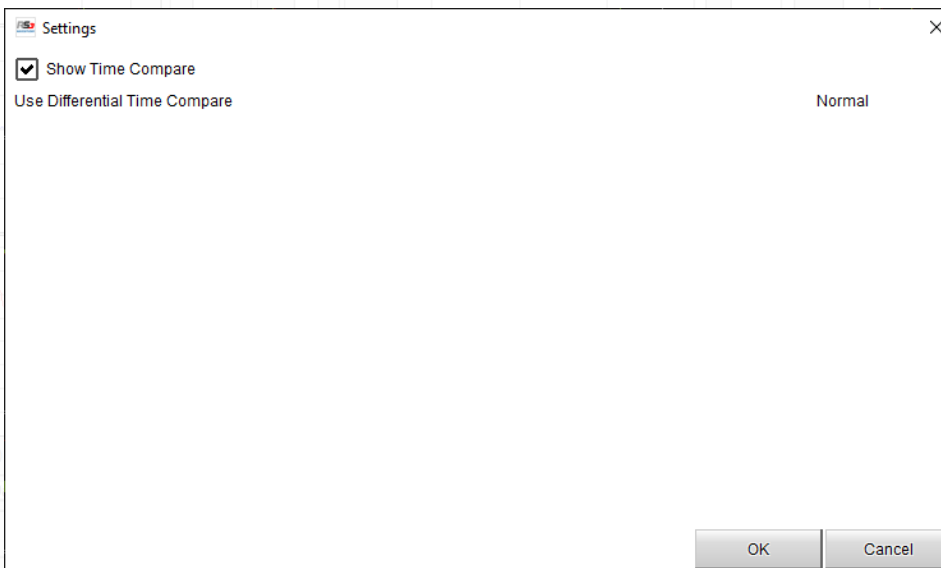
GPS_SpdAccuracy [#] 0.157

GPS_Heading [deg] -23.8

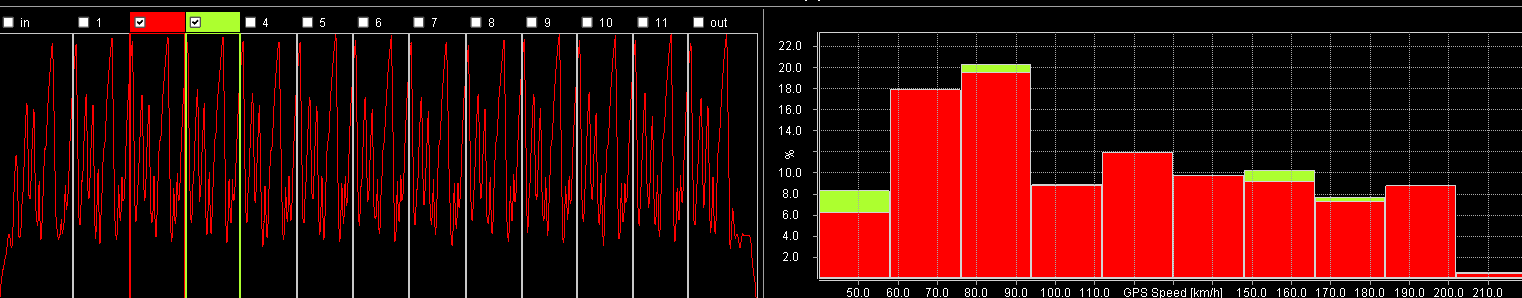
GPS_Altitude [m] 142.96

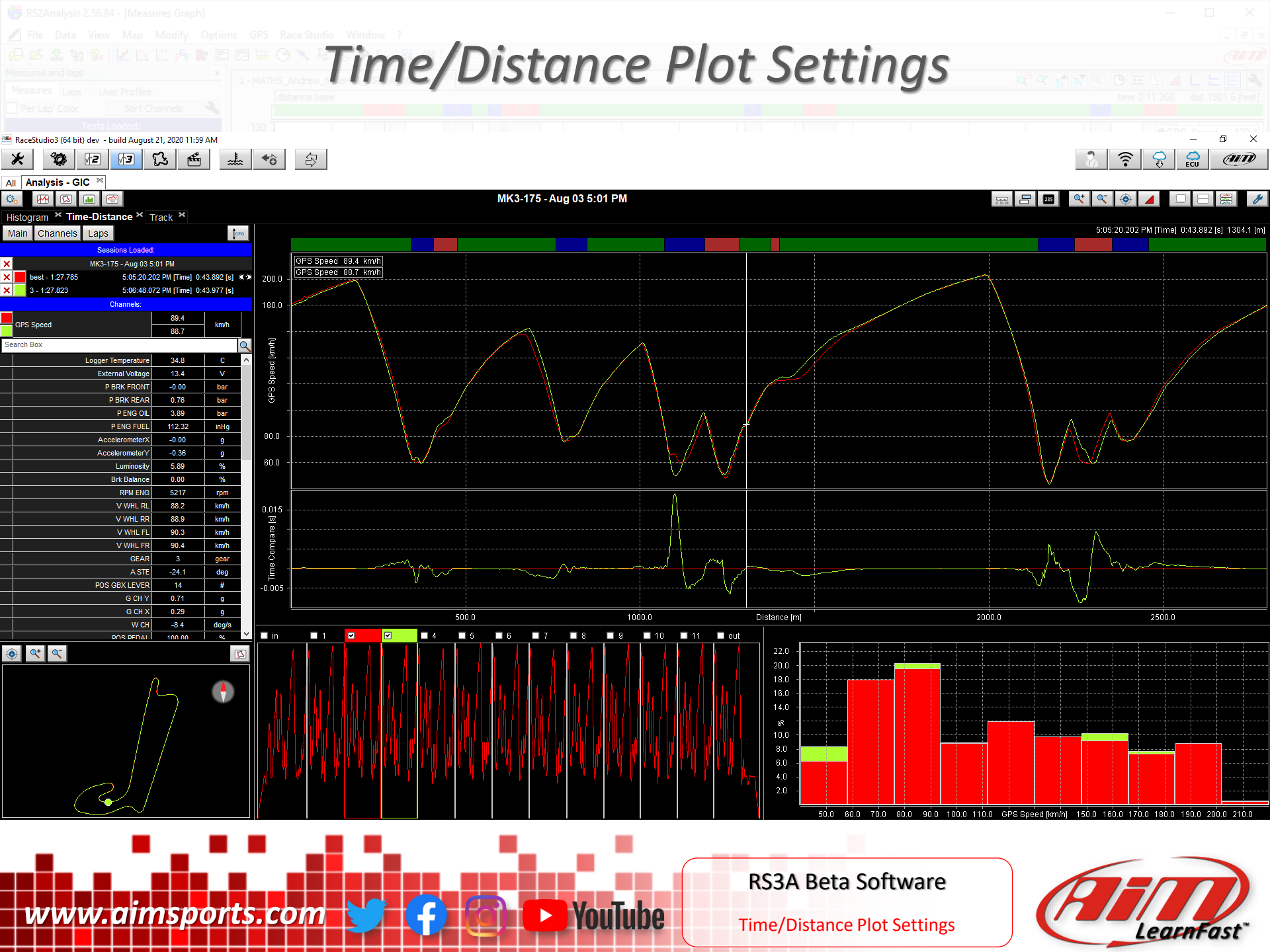
GPS_SpdAccuracy [#] 0.157

- Show/hide time compare.
- Time compare to be differential.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100





Track Map Settings

Measures and laps

Measures Laps User Profiles

☐ Per Lap Color
 ☐ Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

Measures:

GPS_Speed [mph] 123.4

RearDiffCk [%] 0.07

ECU_Rpm [rpm] 198

ECU_Pedal_Pos [%] 72

ECU_Water_T [°F] 198

Oil_Temp [°F] 72

ECU_Lambda [ratio] 12.51

ECU_Spark_Adv [deg] 23.50

ECU_Intake_Air_T [°F] 89.5

External_Voltage [V] 13.0

GearRatio [ratio] 1.00

LambdaFiltered [ratio] 0.851

Spark_AdvFiltered [deg] 23.50

OverRev [secs] 0.00

OverRevFiltered [secs] 0.00

ECU_SpeedCheckFilt [diff] 2.2

AFR [ratio] 12.51

AFR_Filt [ratio] 12.51

AvgRearWheelSpeed [mph] 121.52

RPS_Diff [%] 100.50

ECU_SpeedCheck [diff] 2.2

GPS_LatAcc [g] -0.09

GPS_LonAcc [g] 0.02

GPS_Slope [deg] 0.22

InlineAcc [g] -0.02

LateralAcc [g] -0.17

VerticalAcc [g] -1.43

PitchRate [deg/s] -0.6

RollRate [deg/s] 0.8

YawRate [deg/s] -0.2

GPS_PosAccuracy [#] 0.940

GPS_Neat [#] 15

GPS_Gyro [deg/s] -0.9

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

GPS_SpdAccuracy [#] 0.157

GPS_PosAccuracy [#] 0.157

GPS_PosAccuracy [#] 0.157

GPS_PosAccuracy [#] 0.157

GPS_PosAccuracy [#] 0.157

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

[distance base] time 0:11.368 dist 1301.6 [feet]

GPS_Speed 123.4

GPS_Speed 123.4

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GPS_Speed 123.4

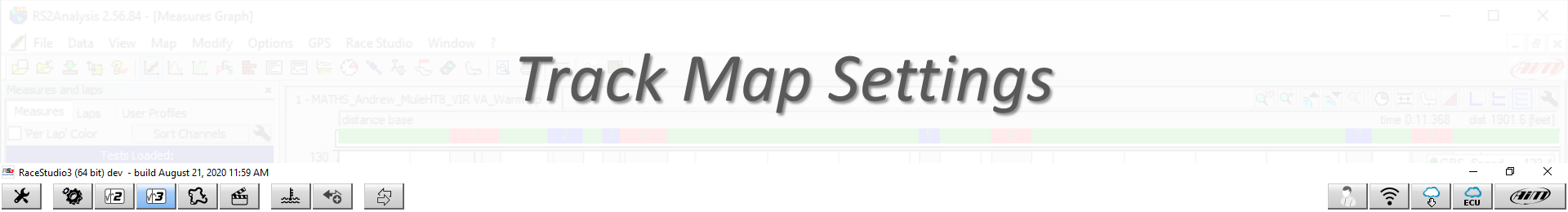
GPS_Speed 123.4

Settings

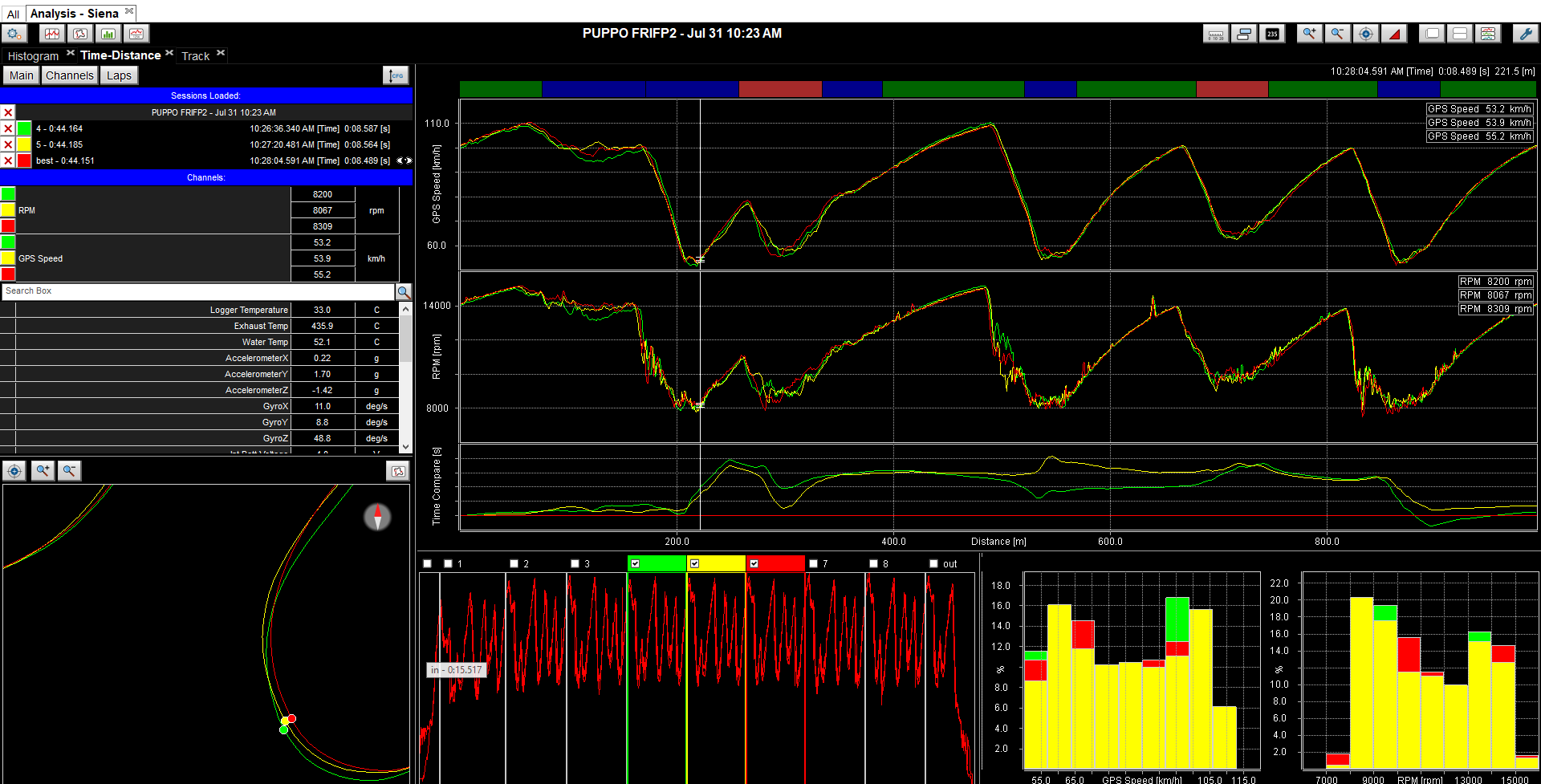
☐ Show Track Map
☒ Colorize Trace

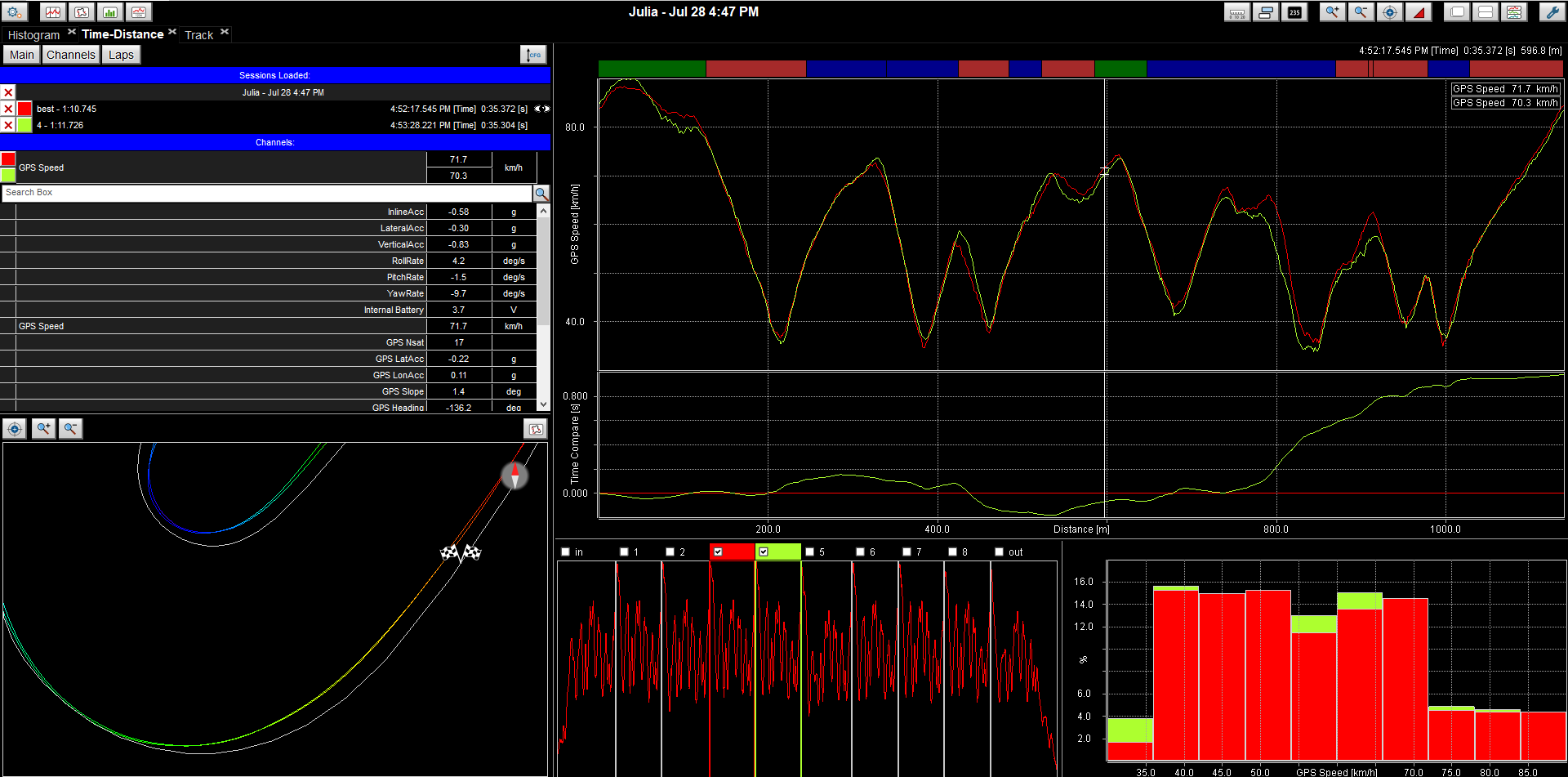
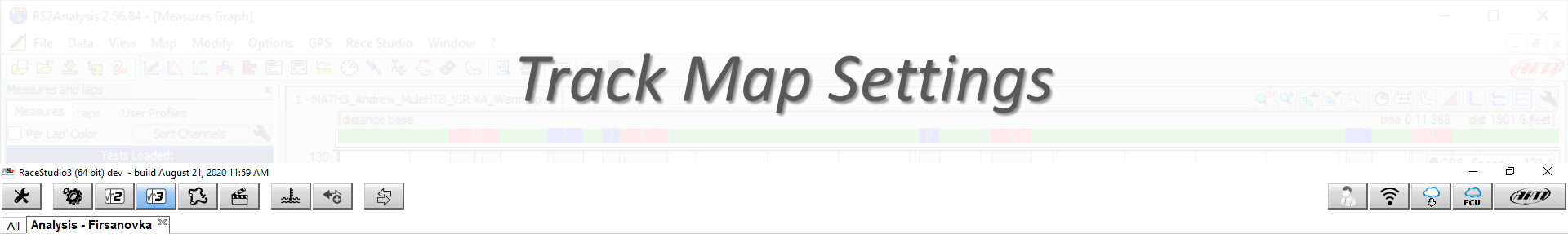
OK Cancel





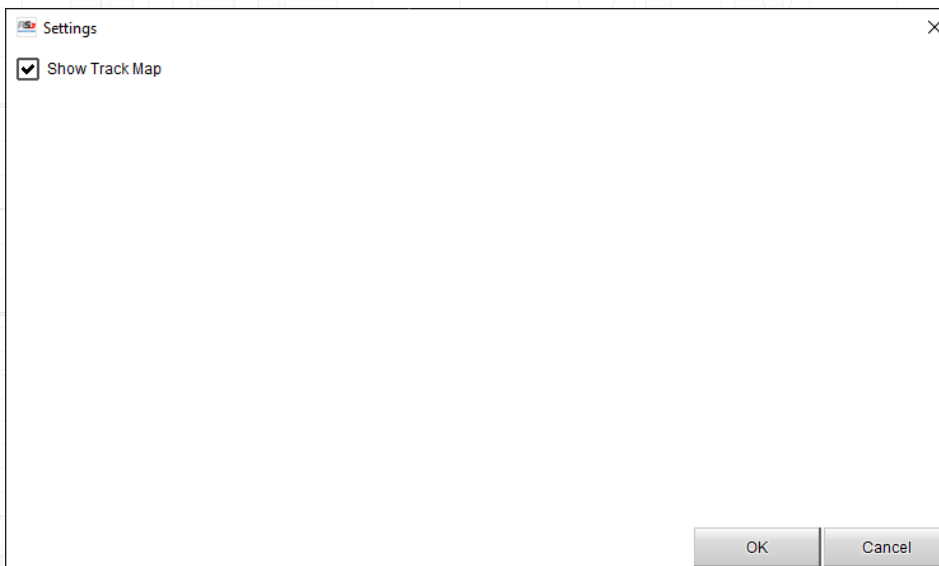
Track Map Settings

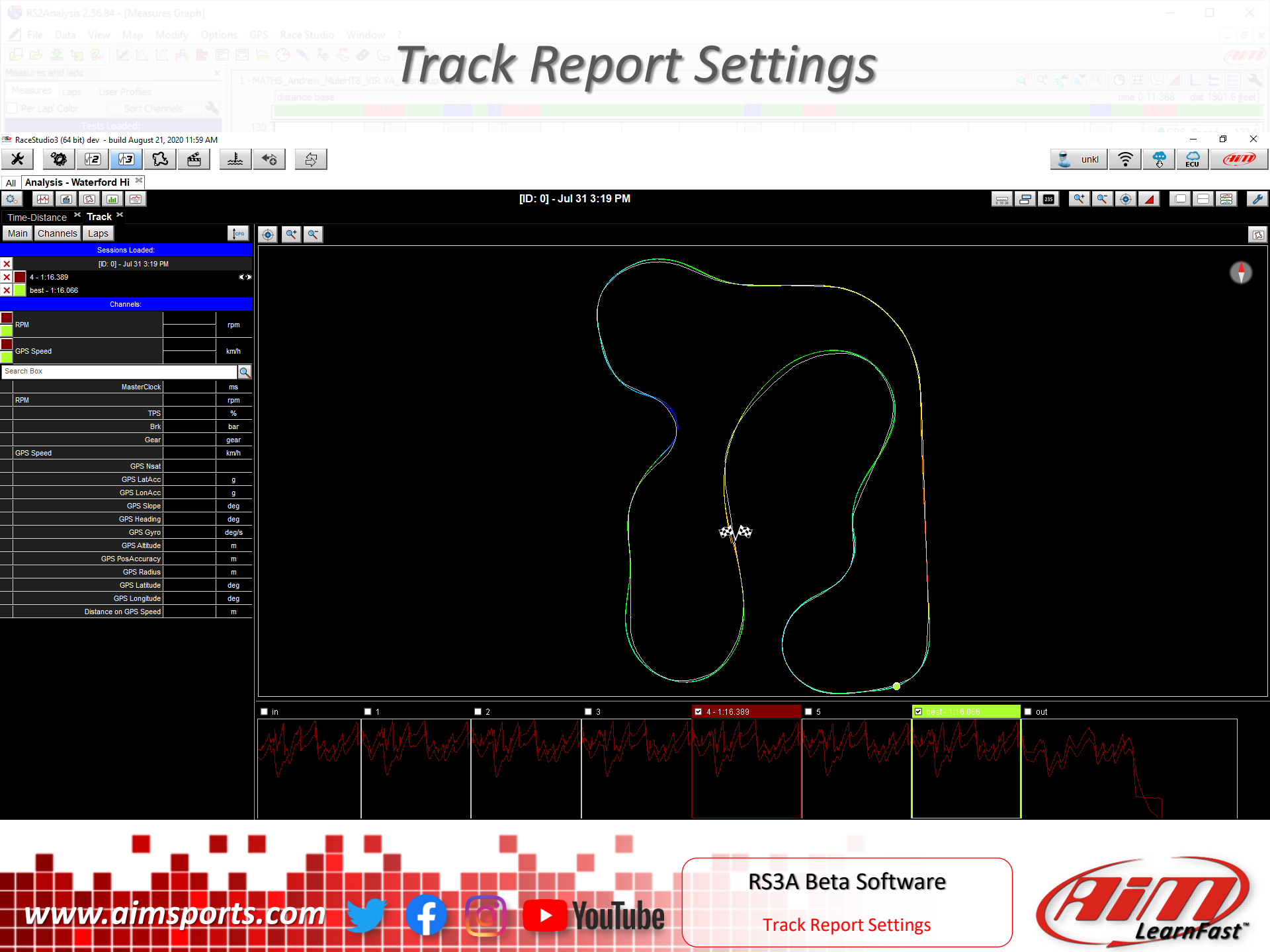


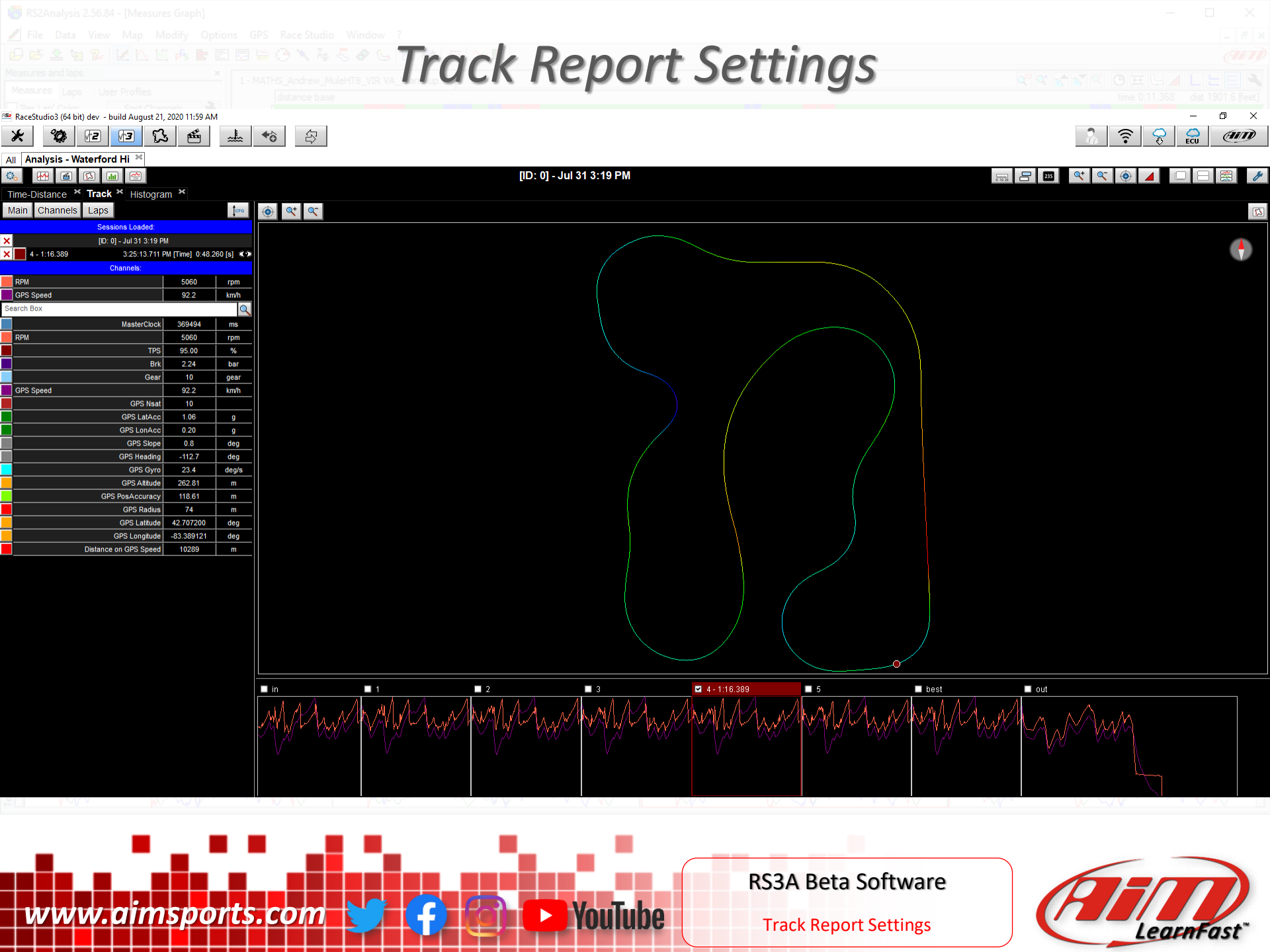


Track Report Settings

- AiM track map displayed or not.







Track Report Settings

RaceStudio3 (64 bit) dev - build August 21, 2020 11:59 AM

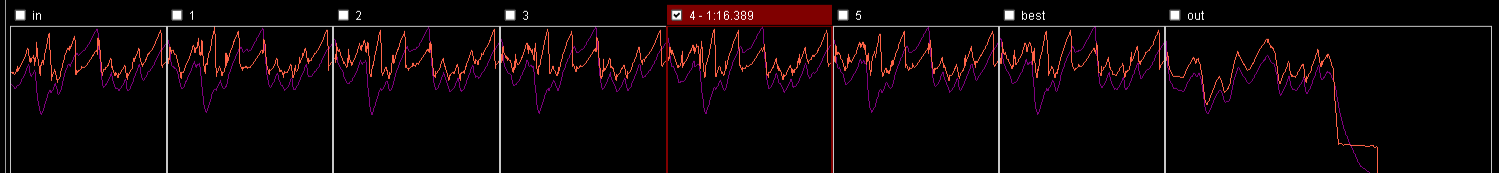
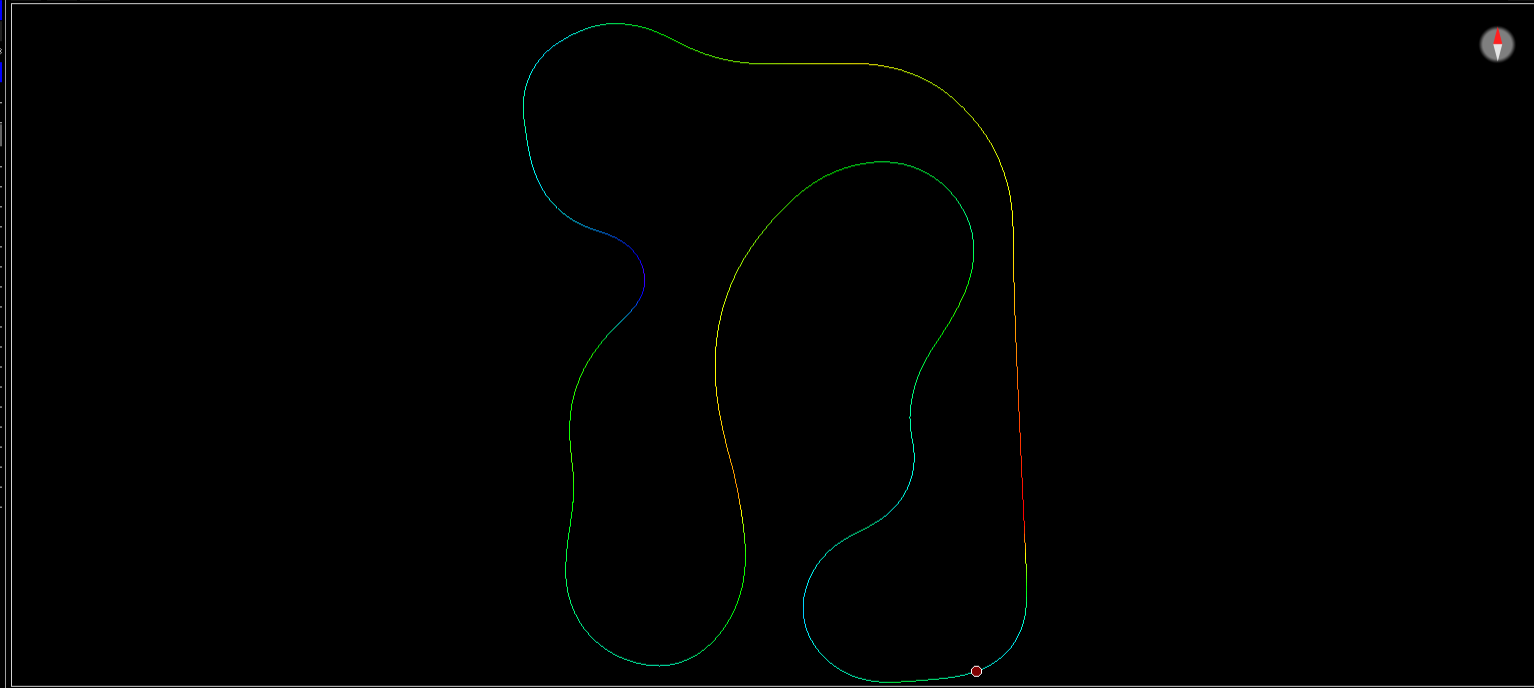
All Analysis - Waterford Hi

[ID: 0] - Jul 31 3:19 PM

Time-Distance Track Histogram

Main Channels Laps

Sessions Loaded:			
[ID: 0] - Jul 31 3:19 PM			
4 - 1:16.389 3:25:13.711 PM [Time] 0:48.260 [s]			
Channels:			
RPM	5060	rpm	
GPS Speed	92.2	km/h	
Search Box			
MasterClock	369494	ms	
RPM	5060	rpm	
TPS	95.00	%	
Brk	2.24	bar	
Gear	10	gear	
GPS Speed	92.2	km/h	
GPS Nsat	10		
GPS LatAcc	1.06	g	
GPS LonAcc	0.20	g	
GPS Slope	0.8	deg	
GPS Heading	-112.7	deg	
GPS Gyro	23.4	deg/s	
GPS Altitude	262.81	m	
GPS PosAccuracy	118.61	m	
GPS Radius	74	m	
GPS Latitude	42.707200	deg	
GPS Longitude	-83.389121	deg	
Distance on GPS Speed	10289	m	



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RS3A Beta Software

Track Report Settings



Histogram Settings

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

Measures:

GPS_Speed [mph] 123.4

RearDiffCk [%]

ECU_Rpm [rpm]

ECU_Pedal_Pos [%]

ECU_Water_T [°F] 198

Oil_Temp [°F]

ECU_Lambda [V]

ECU_Spark_Adv [deg]

ECU_Intake_Air_T [°F] 89.6

External_Voltage [V]

GearRatio [rpm]

LambdaFiltered [V]

Spark_AdvFiltered [deg] 23.50

OverRev [secs] 0.00

OverRevFiltered [secs] 0.00

ECU_SpeedCheckFilt [diff] 2.2

AFR [ratio] 12.51

AFR_Filt [ratio] 12.51

AvgRearWheelSpeed [mph] 121.52

RPS_Diff [%] 100.50

ECU_SpeedCheck [diff] 2.2

GPS_LatAcc [g] -0.09

GPS_LonAcc [g] 0.02

GPS_Slope [deg] 0.22

InlineAcc [g] -0.02

LateralAcc [g] -0.17

VerticalAcc [g] -1.43

PitchRate [deg/s] -0.6

RollRate [deg/s] 0.8

YawRate [deg/s] -0.2

GPS_PosAccuracy [#] 0.940

GPS_Healt [#] 15

GPS_Gyro [deg/s] -0.9

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

GPS_SpdAccuracy [#] 0.157

GPS_Healt [m] 142.96

GPS_SpdAccuracy [#] 0.157

GPS_Healt [m] 142.96

GPS_SpdAccuracy [#] 0.157

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

[distance base]

time 0:11.368 dist 1301.6 [feet]

GPS_Speed 123.4

GPS_Speed 123.4

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GPS_Speed 123.4

GPS_Speed 123.4

GPS_Speed 123.4

Settings

Histogram Mode

Bars Mode

Number of Bars

Vertical

Percent

10

OK

Cancel

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

Test Laps

2 3 4 5

Test Laps

2 3 4 5

Test Laps

2 3 4 5

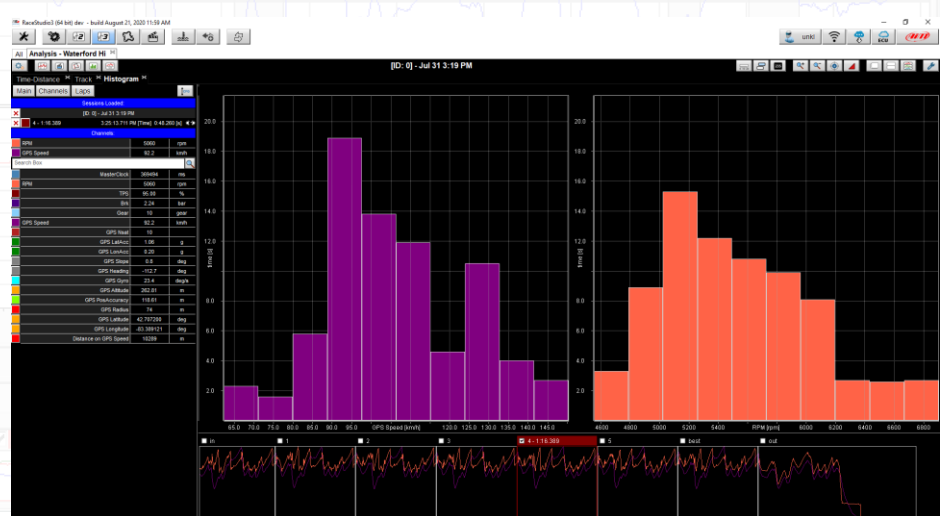
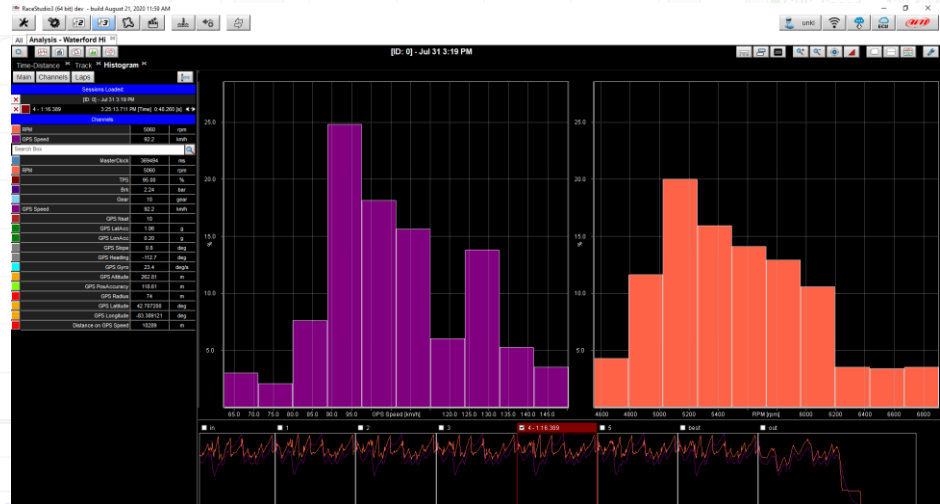
Test Laps

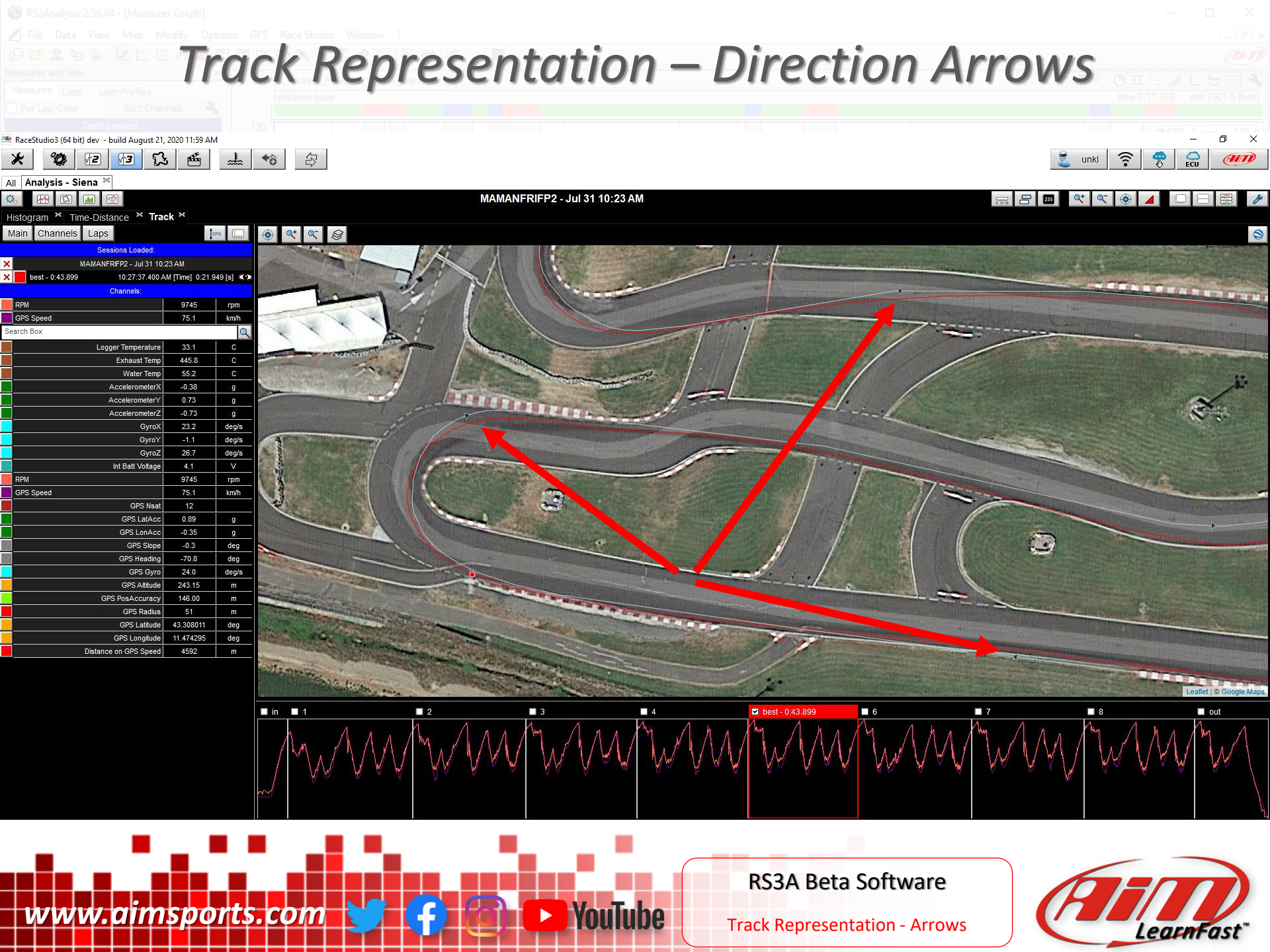
2 3 4 5

Test Laps

2 3 4 5

Test Laps







Sharing Profile

- We introduced the possibility to share the profile on the cloud, where 'sharing' means, now, sharing with all the RS3 installations of a registered user.



Sharing Profile – How To (1st PC)

RaceStudio3 (64 bit) dev - build August 21, 2020 11:59 AM

All Sessions (49 of 49)

#	Date	Track
1	2020, August 03	GIC
22	2020, Jul-31/Aug-01	Siena X30 JR
1	2020, August 01	53.319°N, 8.696°E
1	2020, July 31	Waterford HI
1	2020, July 31	NO GPS SM
2	2020, July 30	MKMC
1	2020, July 28	Firsanovka
1	2020, July 26	Badger Ext BKC LO206 Sr Hwy 2020
1	2020, July 25	Sugo_Car 86BRZ
1	2020, July 25	52.051°N, 11.227°E
1	2020, July 22	Strijen None
1	2020, July 19	Liedolsheim GTC_TEST
1	2020, July 05	Varano FX ITALIAN SERIES
1	2020, July 03	NO GPS None
1	2020, July 01	TT Track day
1	2020, June 12	NO GPS None
1	2020, May 30	RoebbingRR None
1	2020, March 15	COTA
1	2019, September 13	PIRchicane

Recent Sessions

Smart Collections

Manual Collections

Show movies only when linked to data
Show all sessions

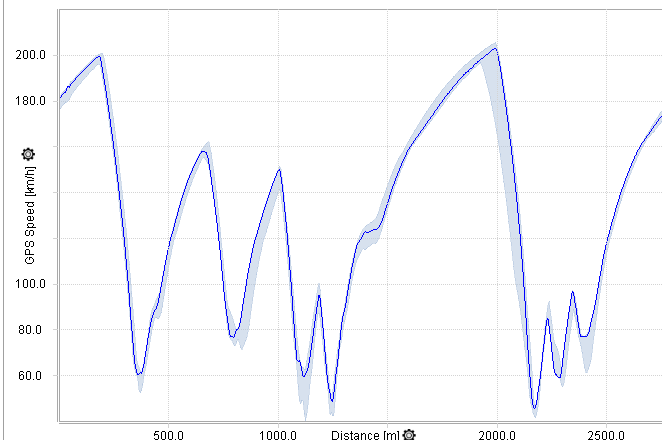
Clear Profile
Export Profile to Folder
Import Profile(s) from Folder

Share Profile with My Other PCs

Speed

GIC - August 3, 2020 - 5:01 PM (11 laps enabled)

1:27.785					1:30.799
☒	Lap	Time	Min	Avg	Max
☐	1	1:59.905	0.0	86.2	197.9
☐	13	1:50.639	0.0	86.6	205.5
☒	8	1:30.799	41.4	110.0	199.3
☒	5	1:30.634	40.5	110.7	199.7
☒	2	1:29.404	43.0	111.8	202.3
☒	11	1:28.675	41.4	112.9	204.2
☒	9	1:28.559	44.7	112.8	201.0
☒	6	1:28.279	44.5	113.3	204.9
☒	7	1:28.278	44.7	113.1	204.2
☒	12	1:28.277	44.7	113.2	205.2
☒	10	1:27.916	43.8	114.4	205.7
☒	4	1:27.823	43.6	114.1	203.3



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RS3A Beta Software

Sharing Profiles



Sharing Profile – How To (Other PCs)

RaceStudio3 (64 bit) 3.50.16 - build August 27, 2020 12:43 AM

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

All Sessions (153 of 153)

#	Date	Track
2	2020, July 11	PIRchicane 2020 Season
122	2020, July 03/05	Lonato ROK
2	2019, September 08	ClubMotors
2	2019, May 19	VirFull MASS
9	2018, August 26	Suzuka_Car 2018
1	2018, July 08	M.Tremblant
15	2018, July 01	Dijon

Recent Sessions

Smart Collections

Manual Collections

Show movies only when linked to data

Show all sessions

Export Profile to Folder

Clear Profile

Import Profile(s) from Folder

Share Profile with My Other PCs

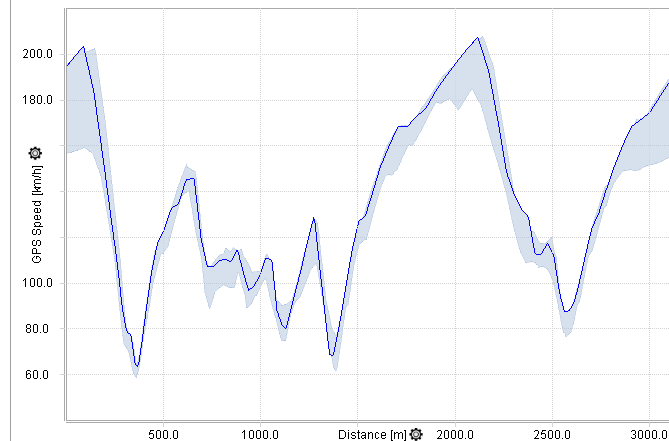
Import Shared Profile

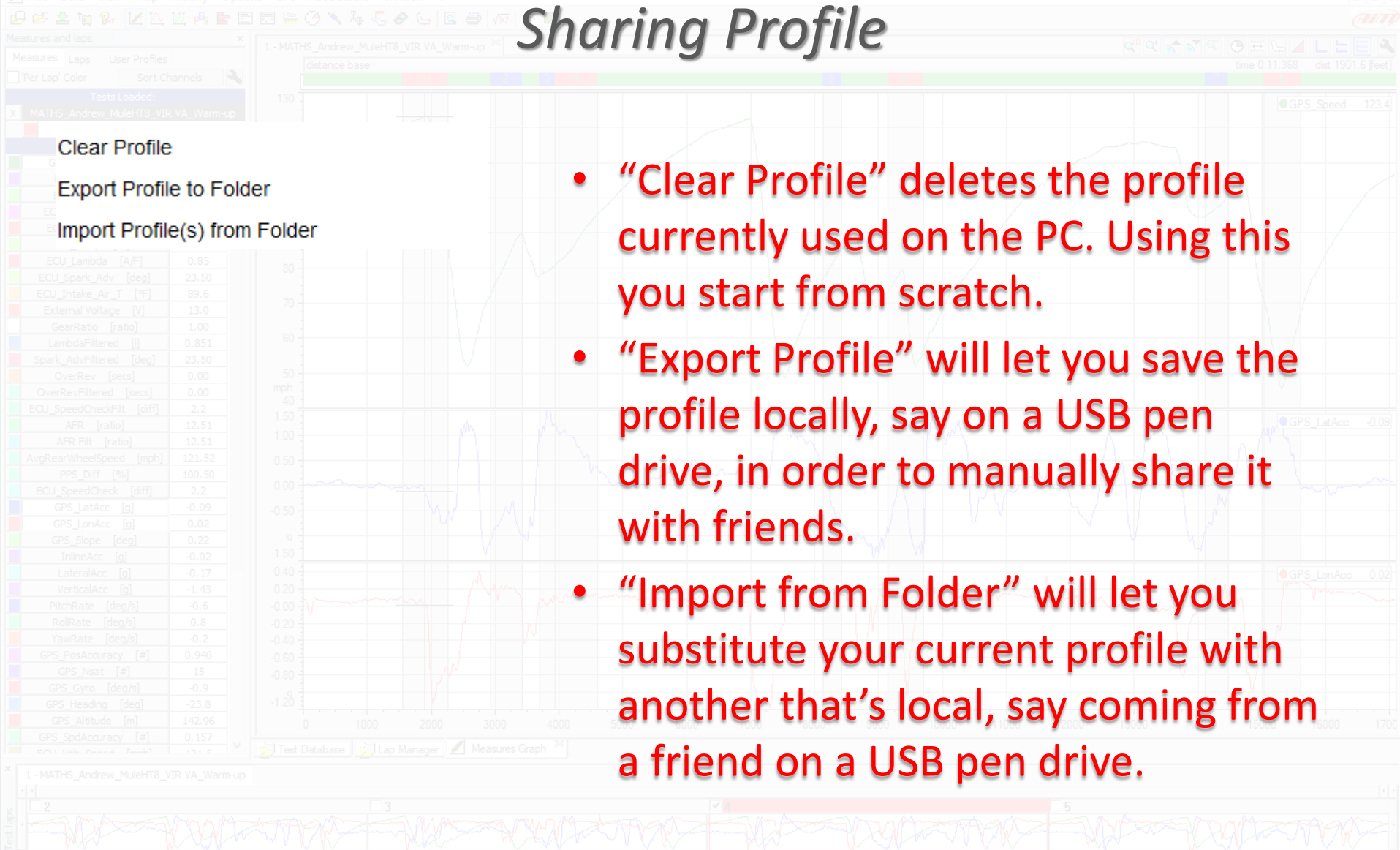
Clear Profile Shared with Other PCs

Speed

PIRchicane - July 11, 2020 - 3:31 PM (11 laps enabled)

1:29.472					1:34.457
☒	Lap	Time	Min	Avg	Max
☐	13	1:35.938	60.7	117.8	199.8
☒	10	1:34.457	61.0	119.2	197.6
☒	2	1:33.431	61.1	121.2	199.5
☒	11	1:32.832	59.4	121.9	190.5
☒	12	1:31.703	58.5	123.4	198.6
☒	9	1:30.758	59.3	124.6	196.6
☒	8	1:30.373	58.2	125.5	202.6
☒	5	1:30.262	62.1	125.2	208.0
☒	6	1:30.224	63.8	125.5	197.5
☒	7	1:30.127	61.9	125.2	195.0
☒	3	1:29.905	61.0	125.9	201.6
☒	4	1:29.472	63.4	126.5	207.5





- “Clear Profile” deletes the profile currently used on the PC. Using this you start from scratch.
- “Export Profile” will let you save the profile locally, say on a USB pen drive, in order to manually share it with friends.
- “Import from Folder” will let you substitute your current profile with another that’s local, say coming from a friend on a USB pen drive.

Sharing Profile

- “Share Profile with My Other PCs” will let you save on AiM Cloud the currently saved profile, making it available for any other PCs in which you’re logged in with the same account.
- “Clear Profile Shared...” will let you delete what you saved on AiM Cloud. You will not be deleting the profile used on other PCs.
- “Import Shared Folder” will let you substitute your current profile with the one save on AiM Cloud.

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

Measures:

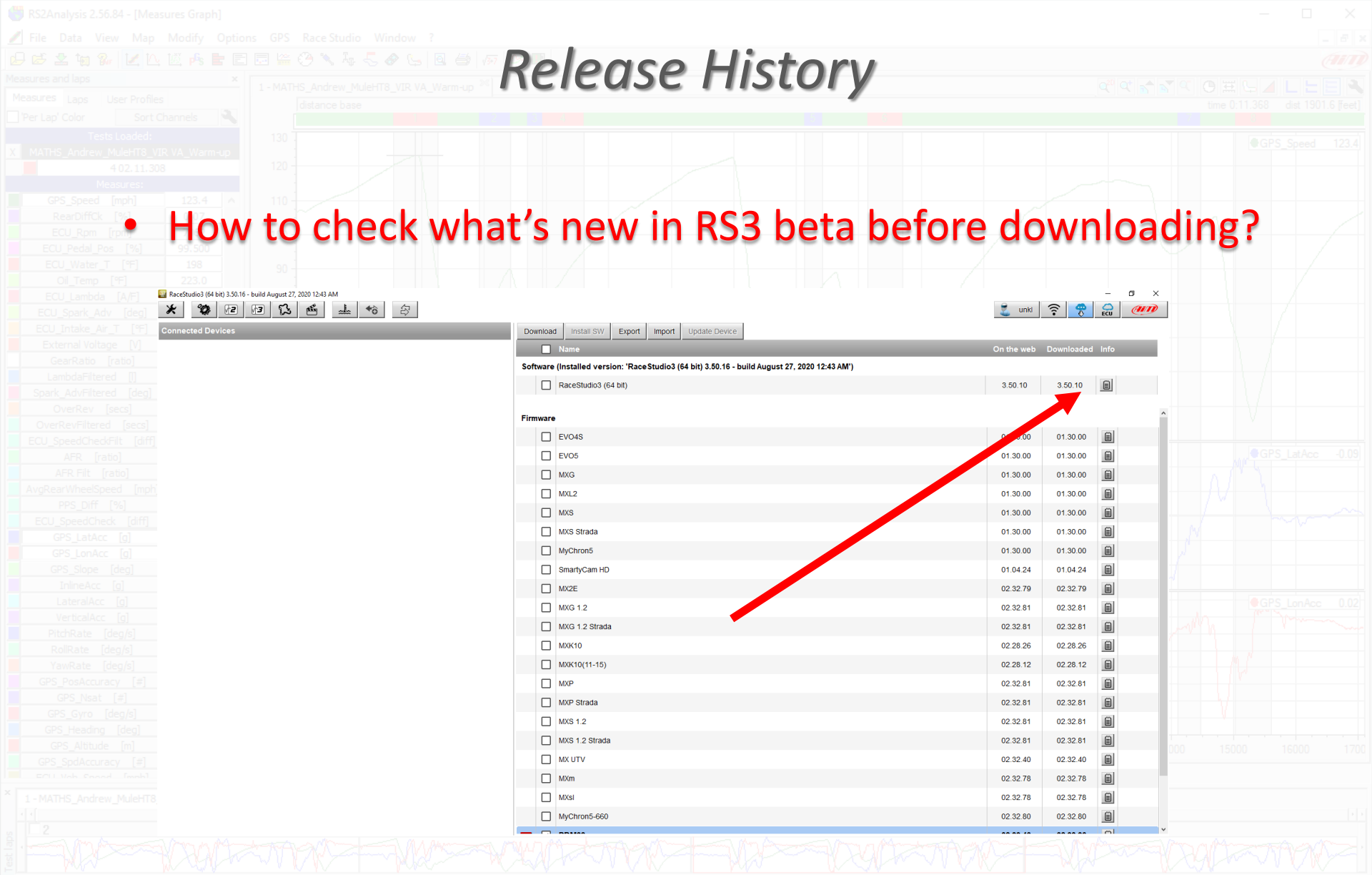
GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°C]	0.00
Oil_Temp [°F]	0.00
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InlineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [#]	0.940
GPS_Neat [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [#]	0.157
GPS_Heading [deg]	171.0

Sharing Profile

- Now these operations have to be done with analysis closed.

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up





Race Studio 3 Beta

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02.11.308

Measures:

GPS_Speed [mph] 123.4

RearDiffCk [%] 0.07

ECU_Rpm [rpm] 7062

ECU_Pedal_Pos [%] 99.500

ECU_Water_T [°F] 198

Oil_Temp [°F] 223.0

ECU_Lambda [A/F] 14.5

ECU_Spark_Adv [deg] 23.5

ECU_Intake_Air_T [°F] 130.0

External_Voltage [V] 13.0

GearRatio [ratio] 1.00

LambdaFiltered [] 0.851

Spark_AdvFiltered [deg] 23.5

OverRev [secs] 0.0

OverRevFiltered [secs] 0.00

ECU_SpeedCheckFilt [diff] 2.2

AFR [ratio] 12.51

AFR_Filt [ratio] 12.51

AvgRearWheelSpeed [mph] 121.52

RPS_Diff [%] 100.50

ECU_SpeedCheck [diff] 2.2

GPS_LatAcc [g] -0.09

GPS_LonAcc [g] 0.0

GPS_Slope [deg] 0.22

InlineAcc [g] -0.02

LateralAcc [g] -0.17

VerticalAcc [g] -1.43

PitchRate [deg/s] -0.6

RollRate [deg/s] 0.8

YawRate [deg/s] -0.2

GPS_PosAccuracy [ft] 0.940

GPS_Neat [ft] 15

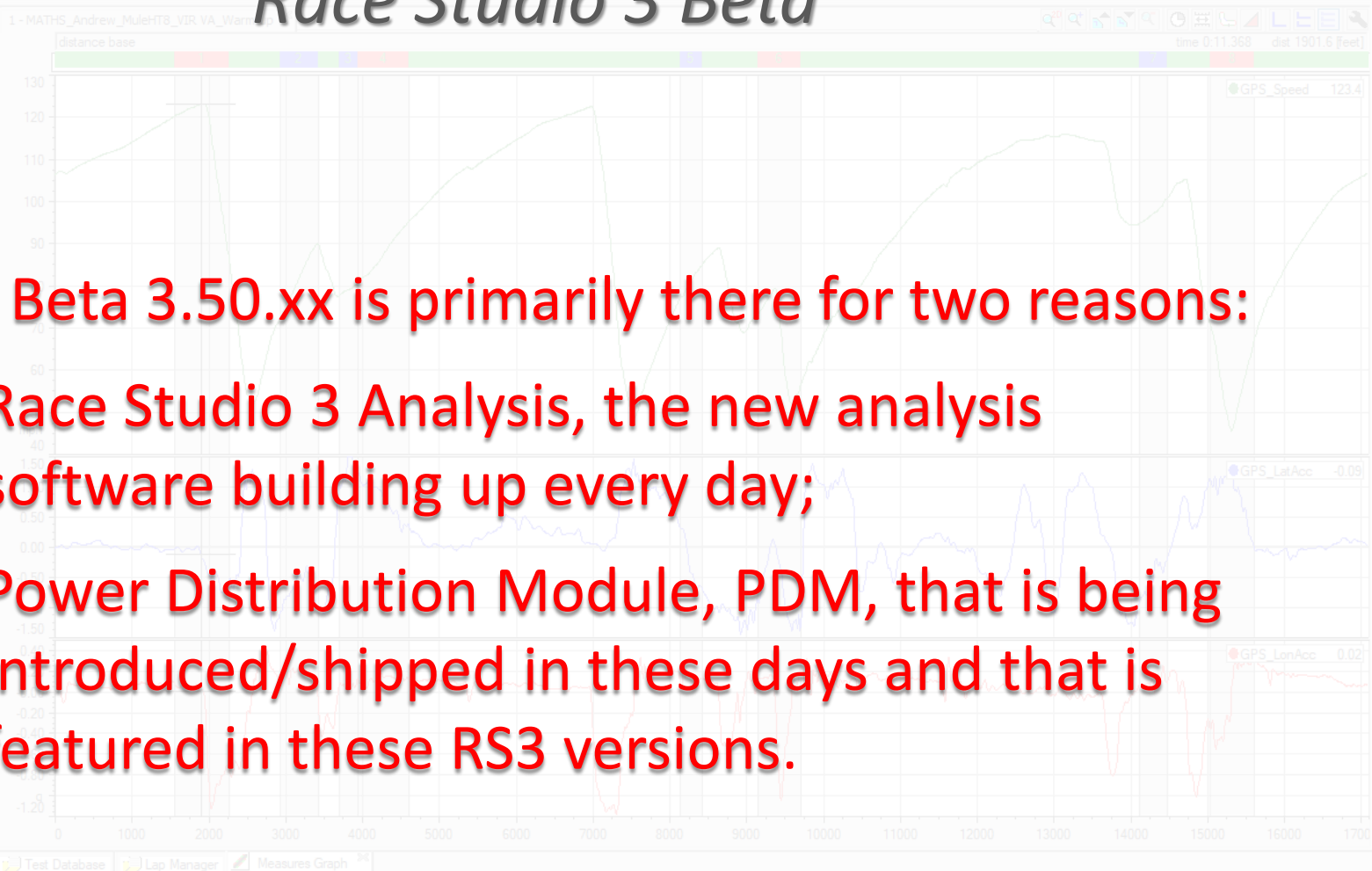
GPS_Gyro [deg/s] -0.9

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

GPS_SpdAccuracy [ft] 0.157

GPS_Veh_PosAcc [ft] 1.71 E



- RS3 Beta 3.50.xx is primarily there for two reasons:
- Race Studio 3 Analysis, the new analysis software building up every day;
- Power Distribution Module, PDM, that is being introduced/shipped in these days and that is featured in these RS3 versions.

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2 3 4 5

Test Laps

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2 3 4 5

Test Laps

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2 3 4 5

Test Laps

Different Tile Providers

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_War...

4 02:11.308

Measures:

GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered [I]	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InlineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [#]	0.940
GPS_Neat [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [#]	0.157
GPS_1_Wide_Pass [secs]	1.71 E

1 - MATHS_Andrew_MuleHT8_VIR_VA_War...

2

Test Laps



Leaflet | Tiles © Esri — Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, UPR-EGP, and the GIS User Community



Different Tile Providers

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR VA_Warr

4 02:11.308

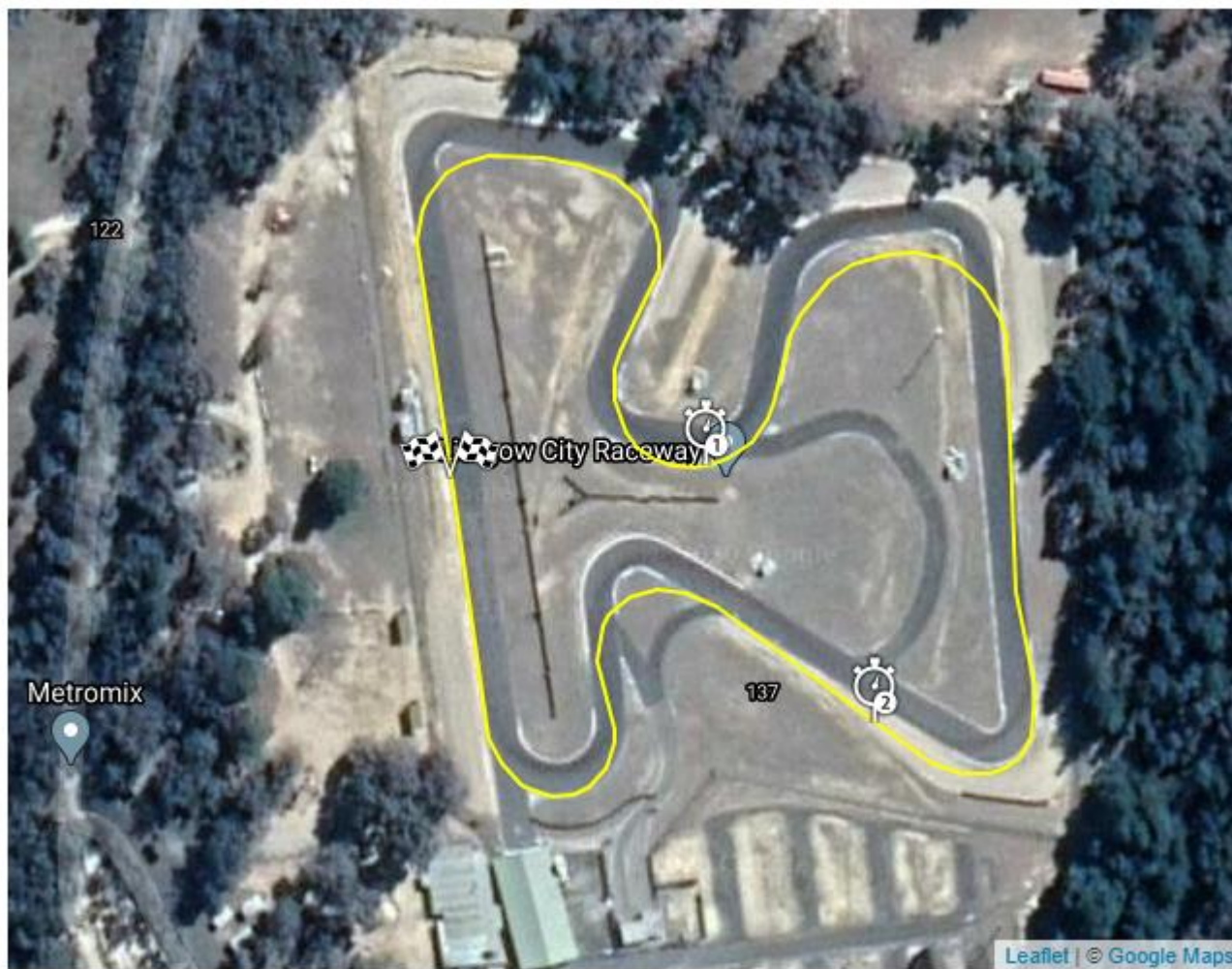
Measures:

GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InlineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [ft]	0.940
GPS_Neat [ft]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [ft]	0.157
GPS_Visual_Precision [ft]	171.2

Test Laps

1 - MATHS_Andrew_MuleHT8_VIR VA_Warr

2



Different Tile Providers

Measures and laps

Measures Laps User Profiles

☐ Per Lap Color ☐ Sort Channels

Tests Loaded:

1 - MATHS_Andrew_MuleHT8_VIR VA_Warm

4 02:11.308

Measures:

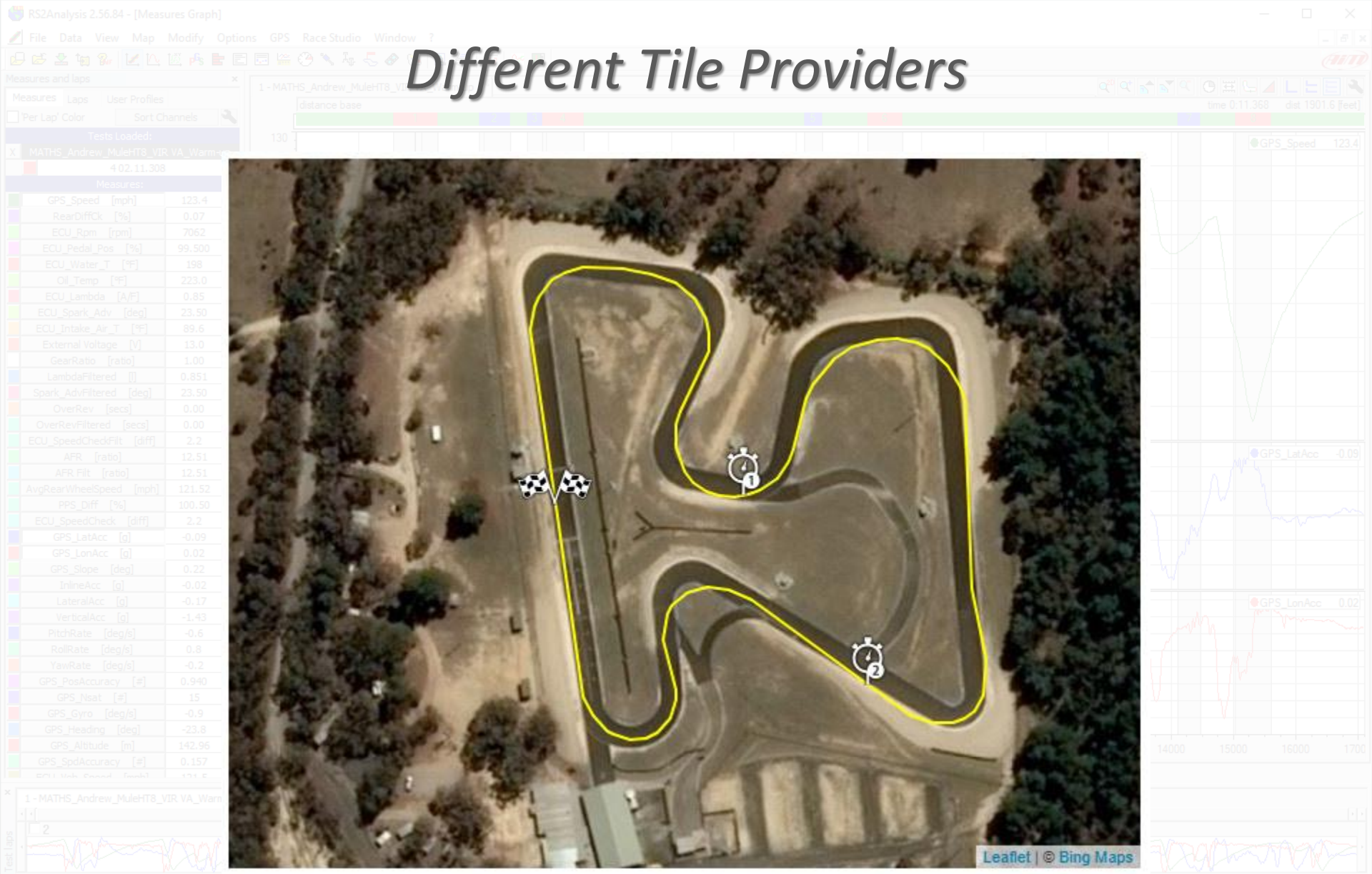
GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InlineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [#]	0.940
GPS_Neat [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [#]	0.157
GPS_Heading [deg]	171.0

Test Laps

1 - MATHS_Andrew_MuleHT8_VIR VA_Warm

2





Different Time, Same Tile Provider

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

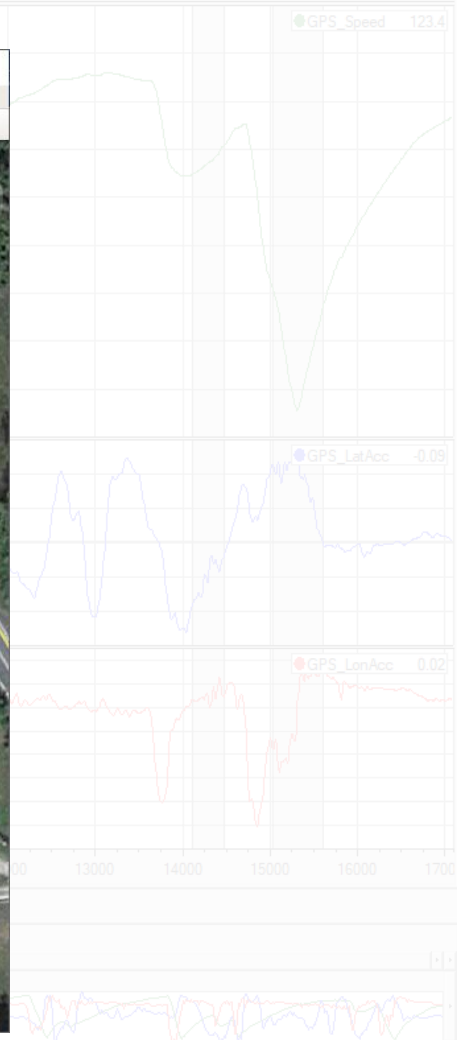
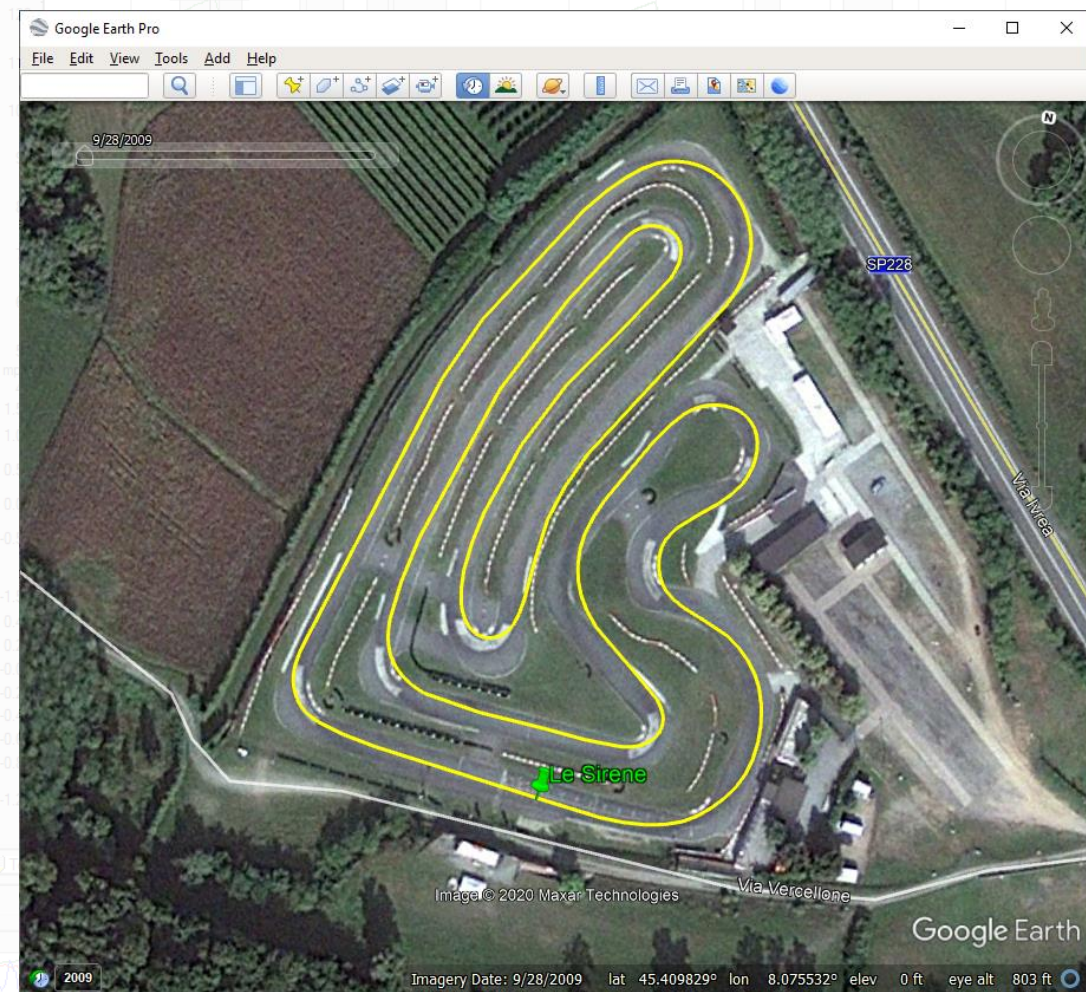
MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

Measures:	
GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InLineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [#]	0.940
GPS_Neat [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [#]	0.157
GPS_Visual_Precision [m]	171.2

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2



Different Time, Same Tile Provider

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

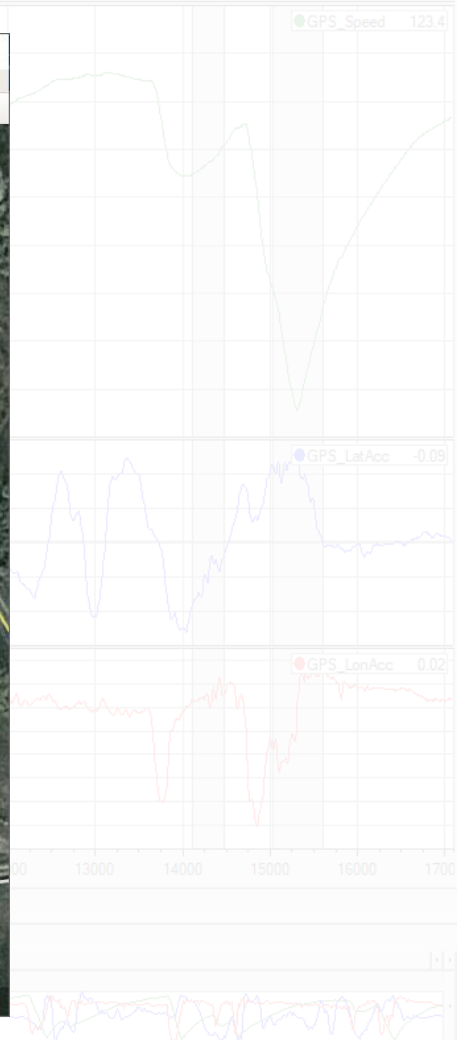
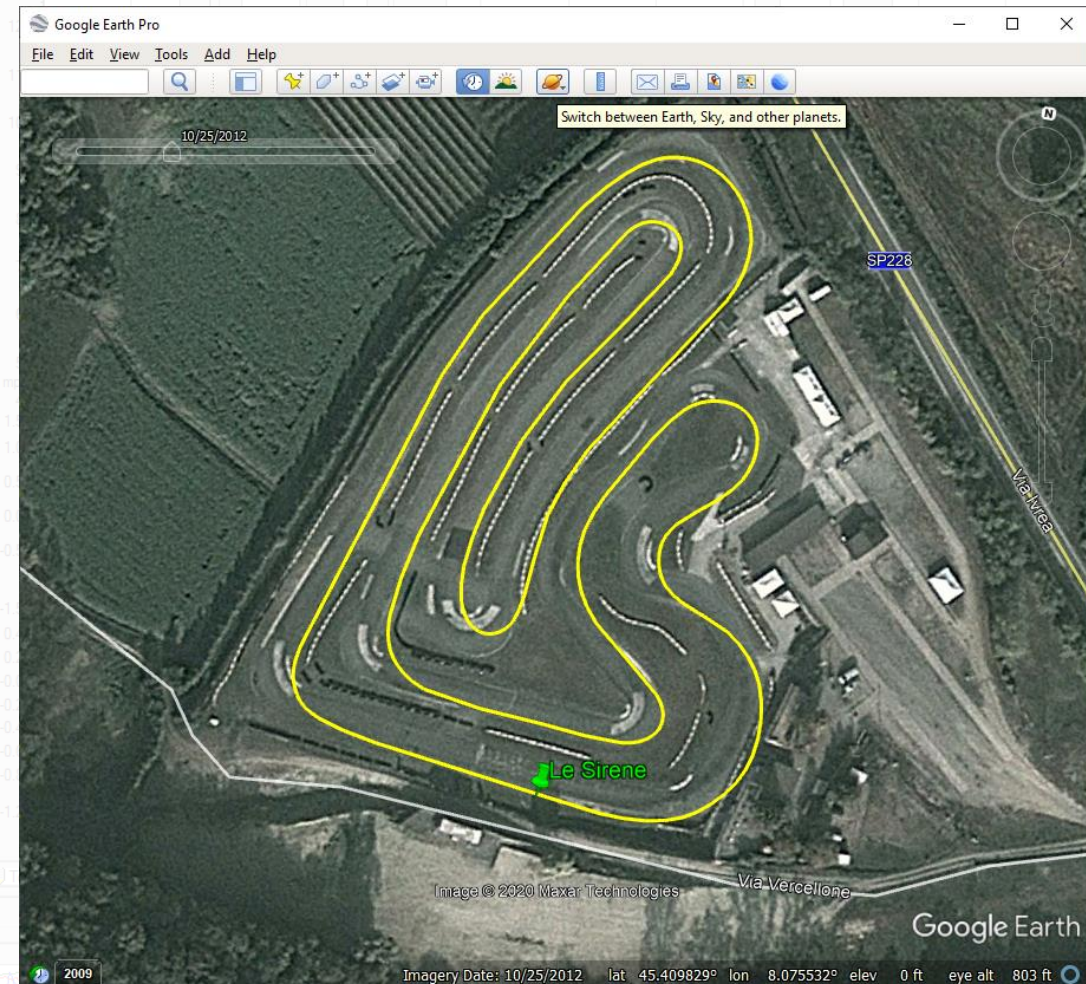
Measures:

GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheck [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InLineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [#]	0.940
GPS_Healt [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [#]	0.157
GPS_Heading [deg]	-23.8

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2

Test Laps



Different Time, Same Tile Provider

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

Measures:

GPS_Speed [mph] 123.4

RearDiffCk [%] 0.07

ECU_Rpm [rpm] 7062

ECU_Pedal_Pos [%] 99.500

ECU_Water_T [°F] 198

Oil_Temp [°F] 223.0

ECU_Lambda [A/F] 0.85

ECU_Spark_Adv [deg] 23.50

ECU_Intake_Air_T [°F] 89.6

External_Voltage [V] 13.0

GearRatio [ratio] 1.00

LambdaFiltered [] 0.851

Spark_AdvFiltered [deg] 23.50

OverRev [secs] 0.00

OverRevFiltered [secs] 0.00

ECU_SpeedCheckFilt [diff] 2.2

AFR [ratio] 12.51

AFR_Filt [ratio] 12.51

AvgRearWheelSpeed [mph] 121.52

RPS_Diff [%] 100.50

ECU_SpeedCheck [diff] 2.2

GPS_LatAcc [g] -0.09

GPS_LonAcc [g] 0.02

GPS_Slope [deg] 0.22

InlineAcc [g] -0.02

LateralAcc [g] -0.17

VerticalAcc [g] -1.43

PitchRate [deg/s] -0.6

RollRate [deg/s] 0.8

YawRate [deg/s] -0.2

GPS_PosAccuracy [#] 0.940

GPS_Neat [#] 15

GPS_Gyro [deg/s] -0.9

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

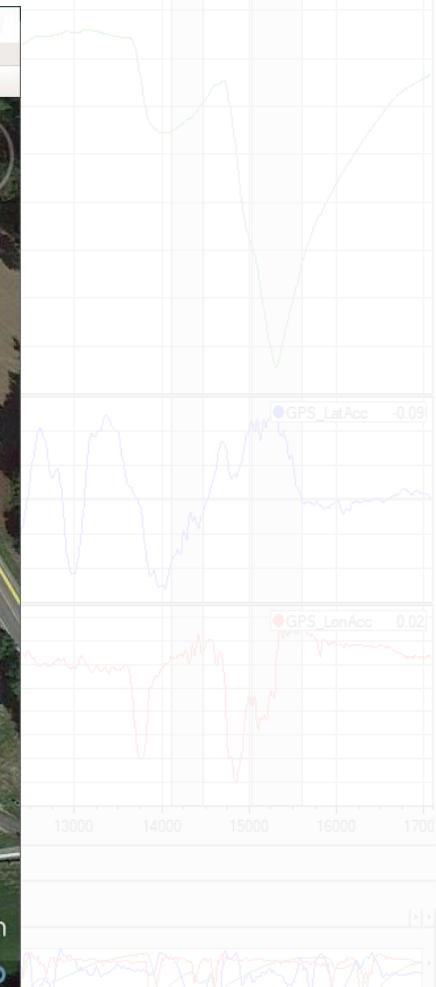
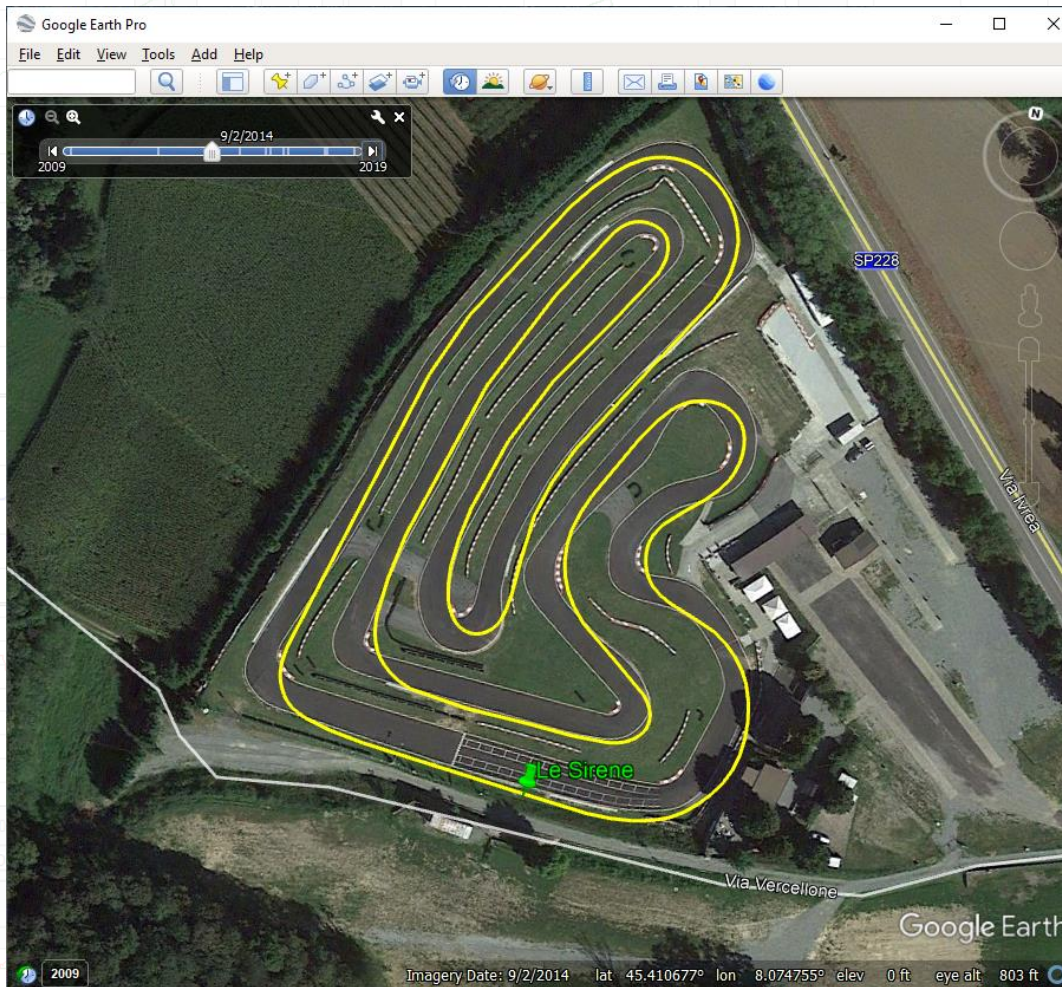
GPS_SpdAccuracy [#] 0.157

GPS_Visual_Position [m] 171.0

Test Laps

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2



Different Time, Same Tile Provider

Measures and laps

Measures Laps User Profiles

☐ Per Lap Color ☐ Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

Measures:

GPS_Speed [mph] 123.4

RearDiffCk [%] 0.07

ECU_Rpm [rpm] 7062

ECU_Pedal_Pos [%] 99.500

ECU_Water_T [°F] 198

Oil_Temp [°F] 223.0

ECU_Lambda [A/F] 0.85

ECU_Spark_Adv [deg] 23.50

ECU_Intake_Air_T [°F] 89.6

External_Voltage [V] 13.0

GearRatio [ratio] 1.00

LambdaFiltered [] 0.851

Spark_AdvFiltered [deg] 23.50

OverRev [secs] 0.00

OverRevFiltered [secs] 0.00

ECU_SpeedCheckFilt [diff] 2.2

AFR [ratio] 12.51

AFR_Filt [ratio] 12.51

AvgRearWheelSpeed [mph] 121.52

RPS_Diff [%] 100.50

ECU_SpeedCheck [diff] 2.2

GPS_LatAcc [g] -0.09

GPS_LonAcc [g] 0.02

GPS_Slope [deg] 0.22

InlineAcc [g] -0.02

LateralAcc [g] -0.17

VerticalAcc [g] -1.43

PitchRate [deg/s] -0.6

RollRate [deg/s] 0.8

YawRate [deg/s] -0.2

GPS_PosAccuracy [#] 0.940

GPS_Neat [#] 15

GPS_Gyro [deg/s] -0.9

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

GPS_SpdAccuracy [#] 0.157

GPS_Veh_PosAcc [m] 1.71 E

Test 1

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2

Test Laps

1

2

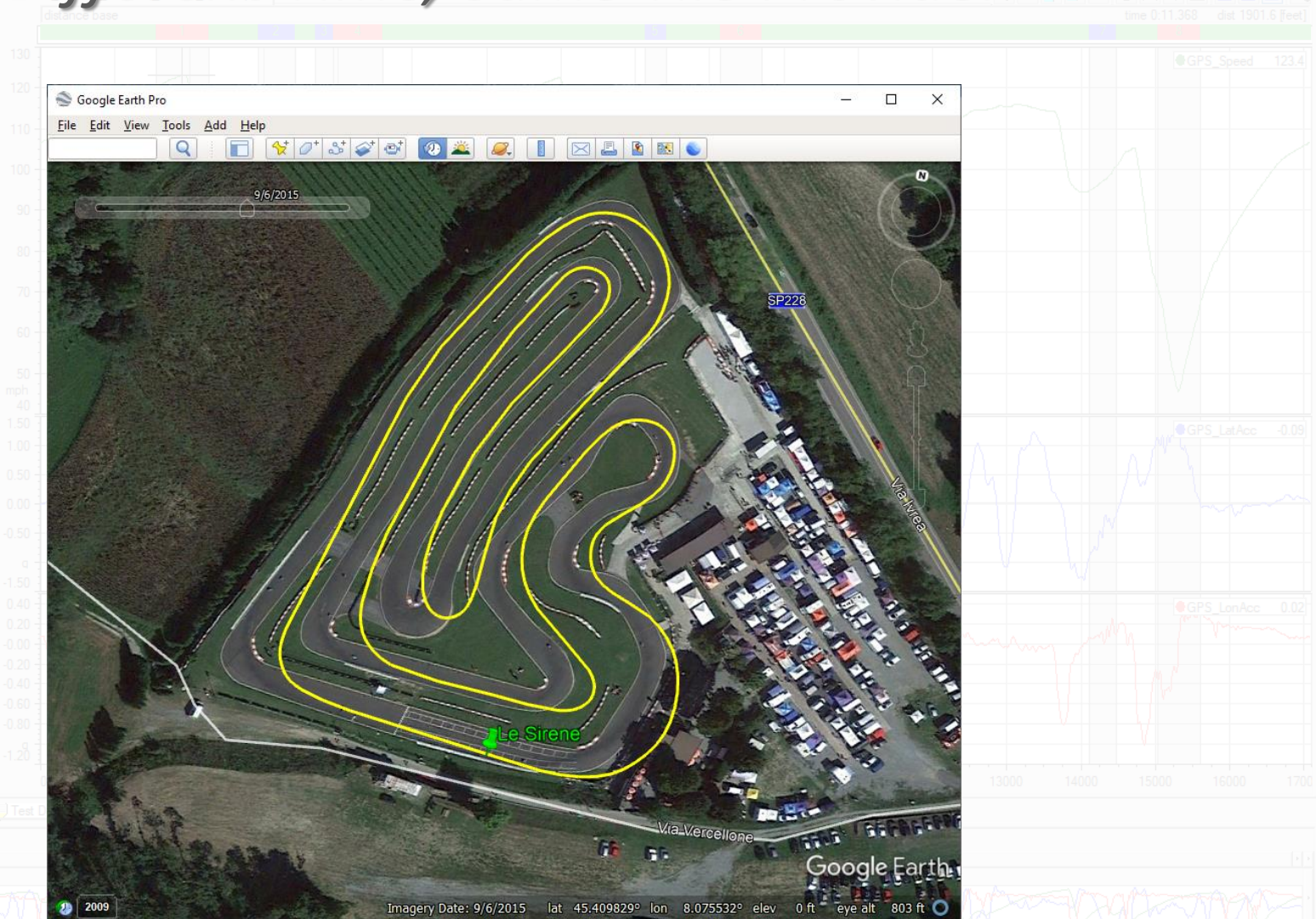
3

4

5

6

7



Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.308

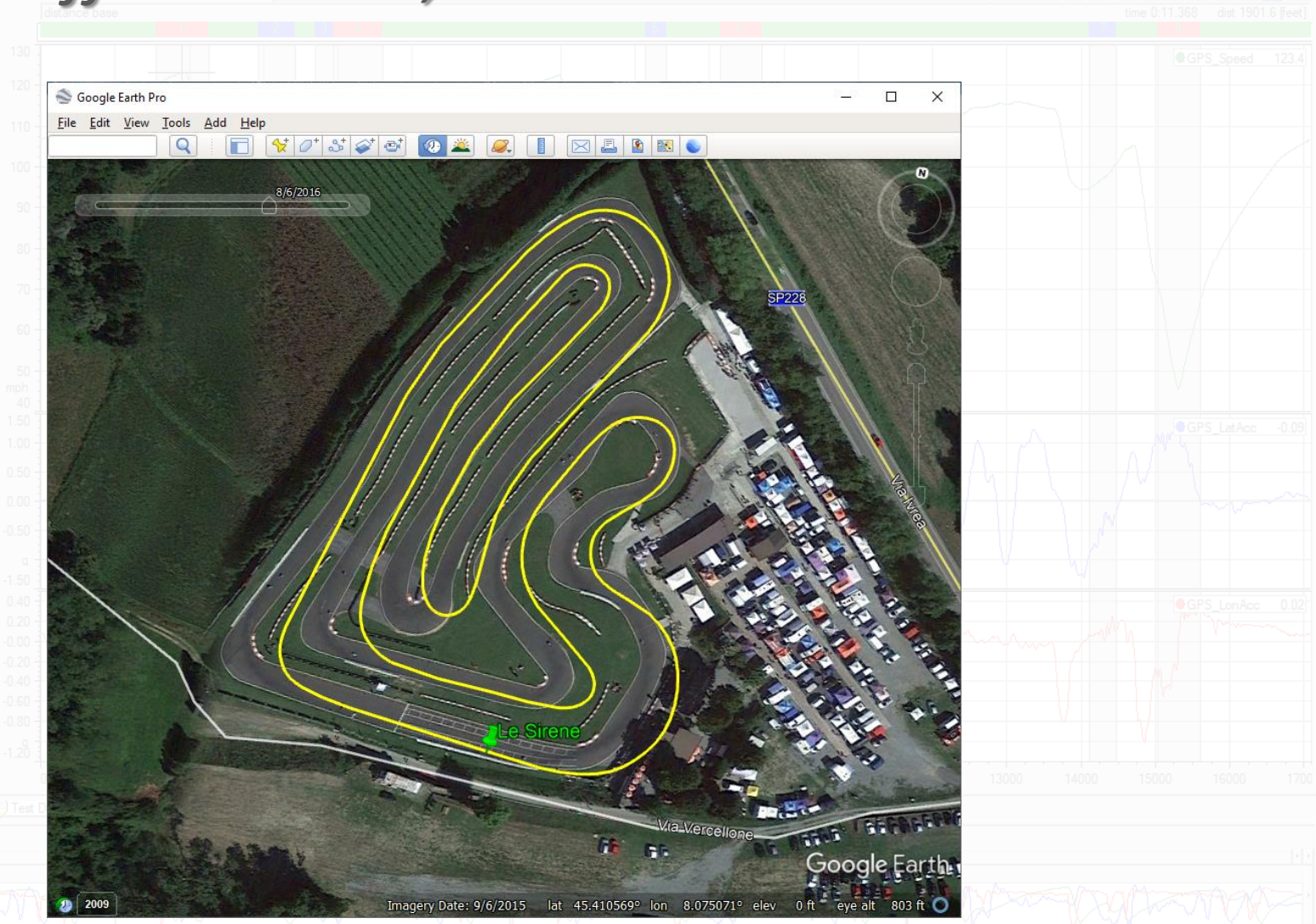
Measures:	
GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered [I]	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InLineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [ft]	0.940
GPS_Neat [ft]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [ft]	0.157
GPS_Visual_Precision [ft]	171.0

Test 1

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

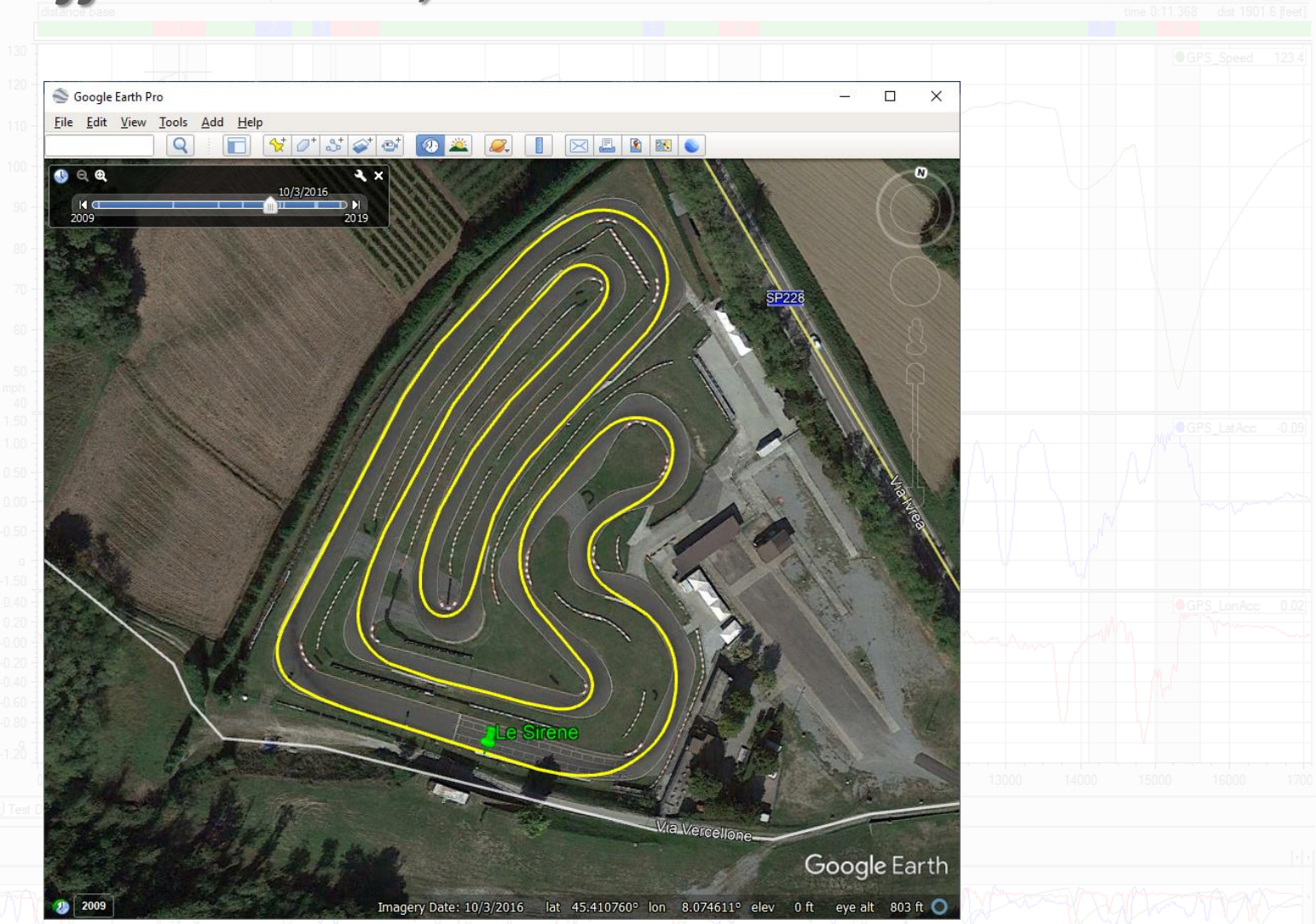
2

Different Time, Same Tile Provider



GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered [I]	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InlineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [ft]	0.940
GPS_Neat [ft]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [ft]	0.157
GPS_Veh_PosAcc [ft]	1.71

Different Time, Same Tile Provider



Different Time, Same Tile Provider

Measures and laps

Measures Laps User Profiles

☐ Per Lap Color
 ☐ Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02.11.308

Measures:

GPS_Speed [mph] 123.4

RearDiffOK [%] 0.07

ECU_Rpm [rpm] 7062

ECU_Pedal_Pos [%] 99.500

ECU_Water_T [°F] 198

Oil_Temp [°F] 223.0

ECU_Lambda [A/F] 0.85

ECU_Spark_Adv [deg] 23.50

ECU_Intake_Air_T [°F] 89.6

External_Voltage [V] 13.0

GearRatio [ratio] 1.00

LambdaFiltered [I] 0.851

Spark_AdvFiltered [deg] 23.50

OverRev [secs] 0.00

OverRevFiltered [secs] 0.00

ECU_SpeedCheckFilt [diff] 2.2

AFR [ratio] 12.51

AFR_Filt [ratio] 12.51

AvgRearWheelSpeed [mph] 121.52

PPS_Diff [%] 100.50

ECU_SpeedCheck [diff] 2.2

GPS_LatAcc [g] -0.09

GPS_LonAcc [g] 0.02

GPS_Slope [deg] 0.22

InlineAcc [g] -0.02

LateralAcc [g] -0.17

VerticalAcc [g] -1.43

PitchRate [deg/s] -0.6

RollRate [deg/s] 0.8

YawRate [deg/s] -0.2

GPS_PosAccuracy [#] 0.940

GPS_Healt [#] 15

GPS_Gyro [deg/s] -0.9

GPS_Heading [deg] -23.8

GPS_Altitude [m] 142.96

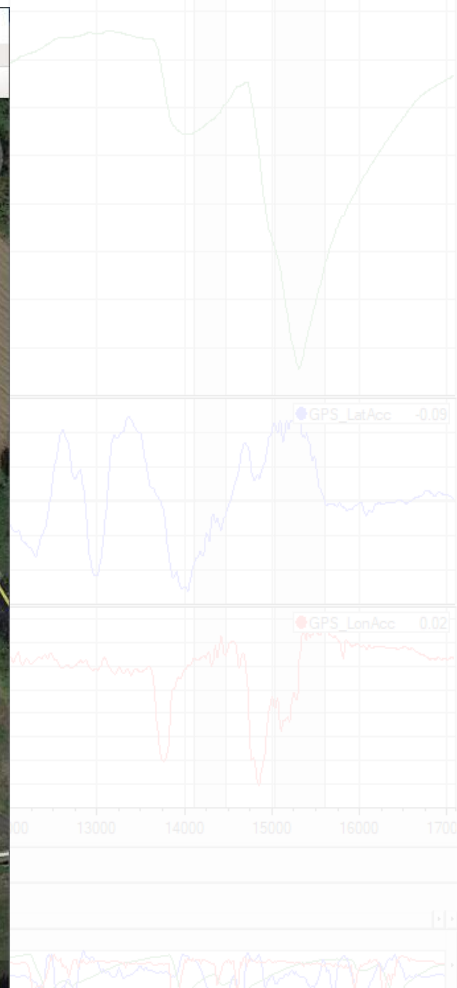
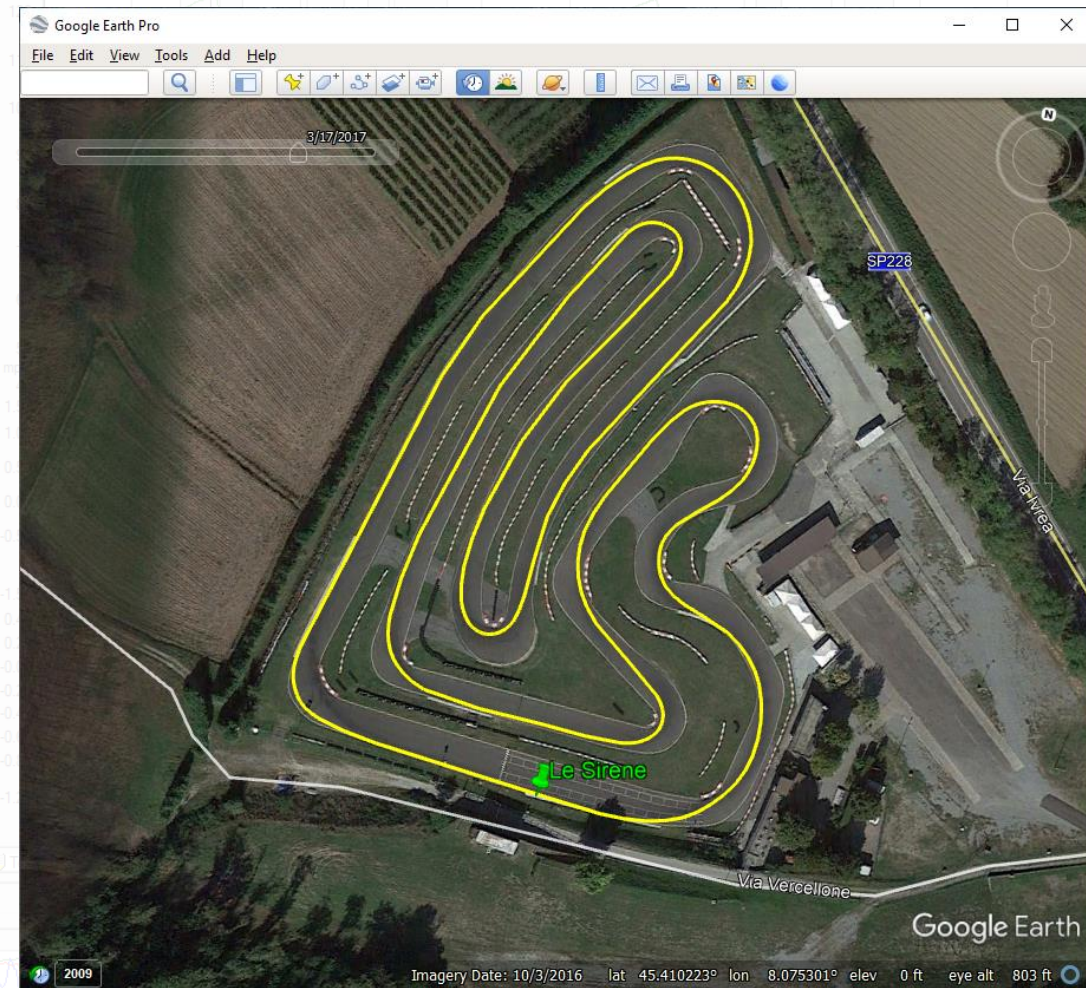
GPS_SpdAccuracy [#] 0.157

GPS1_Wide_Fanned_Traffic? 171 E

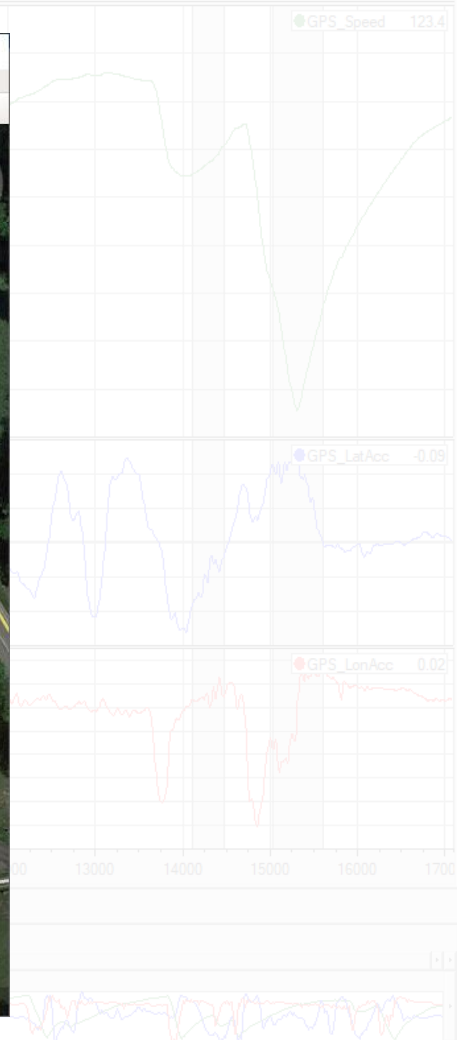
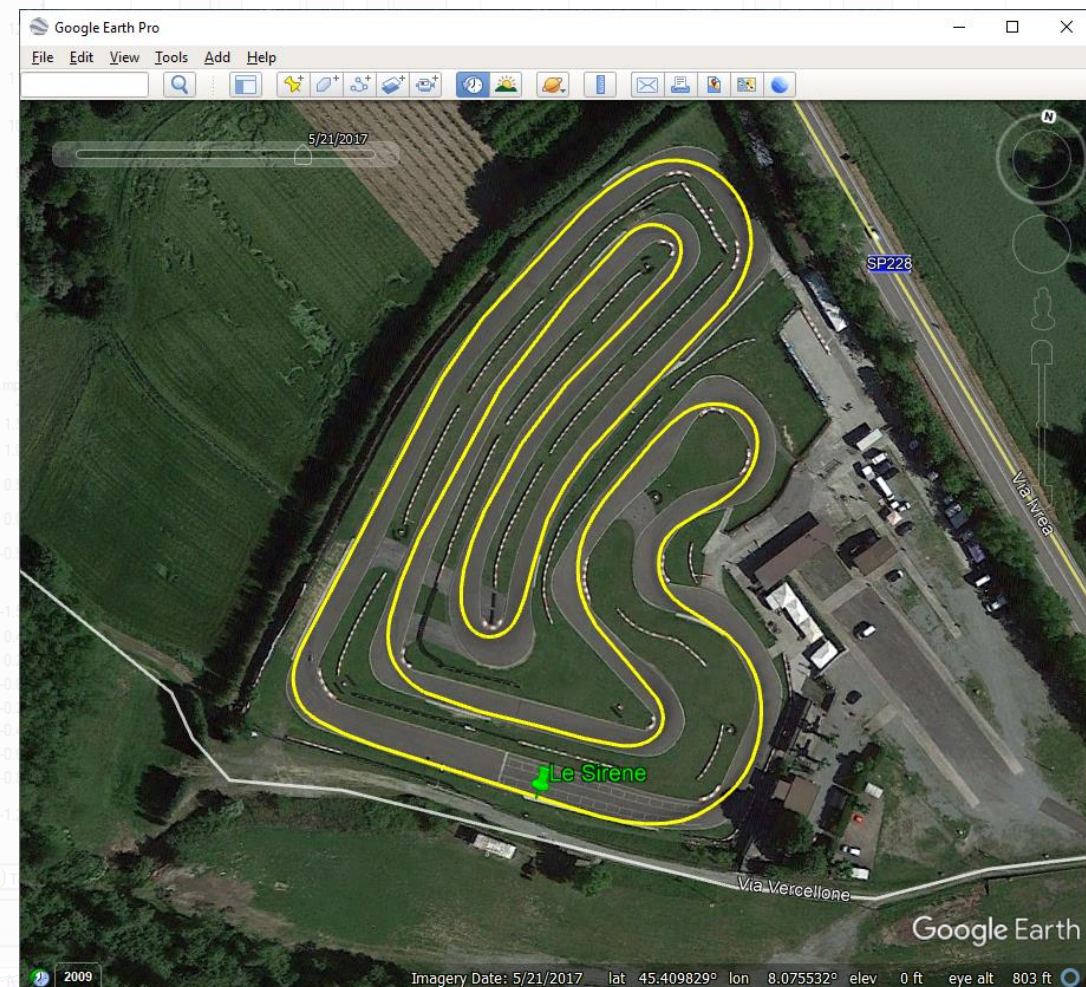
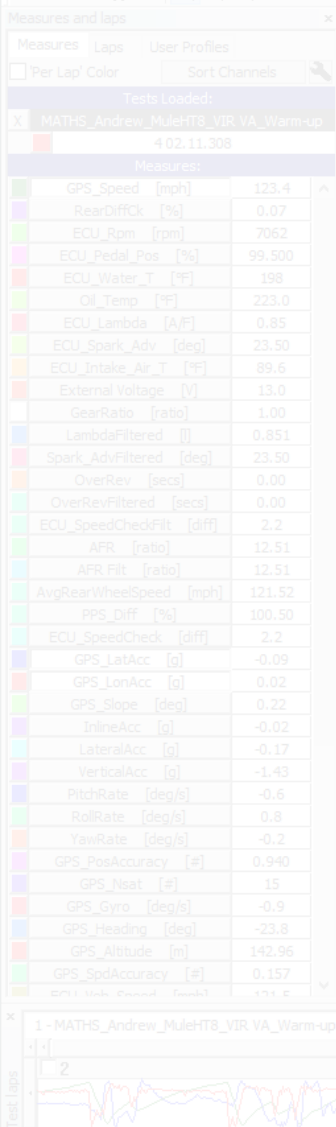
1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2

Test Laps



Different Time, Same Tile Provider



Different Time, Same Tile Provider

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

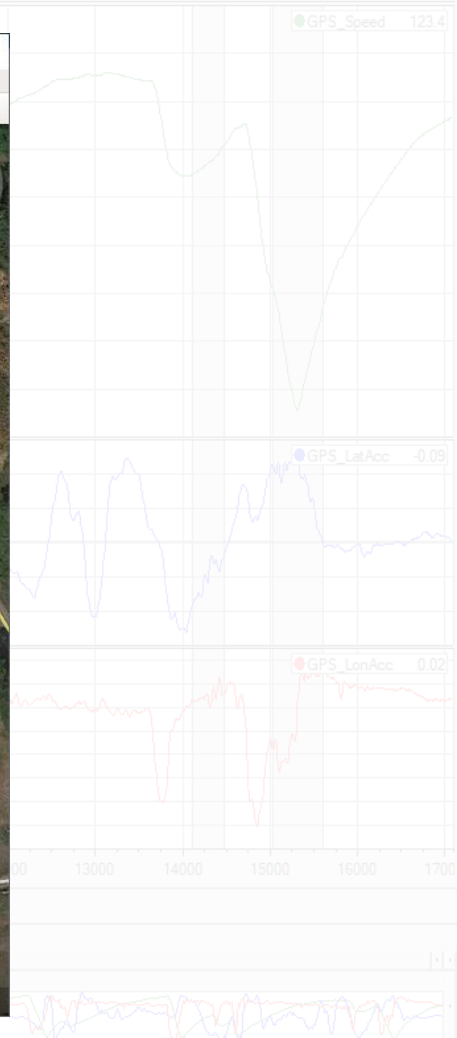
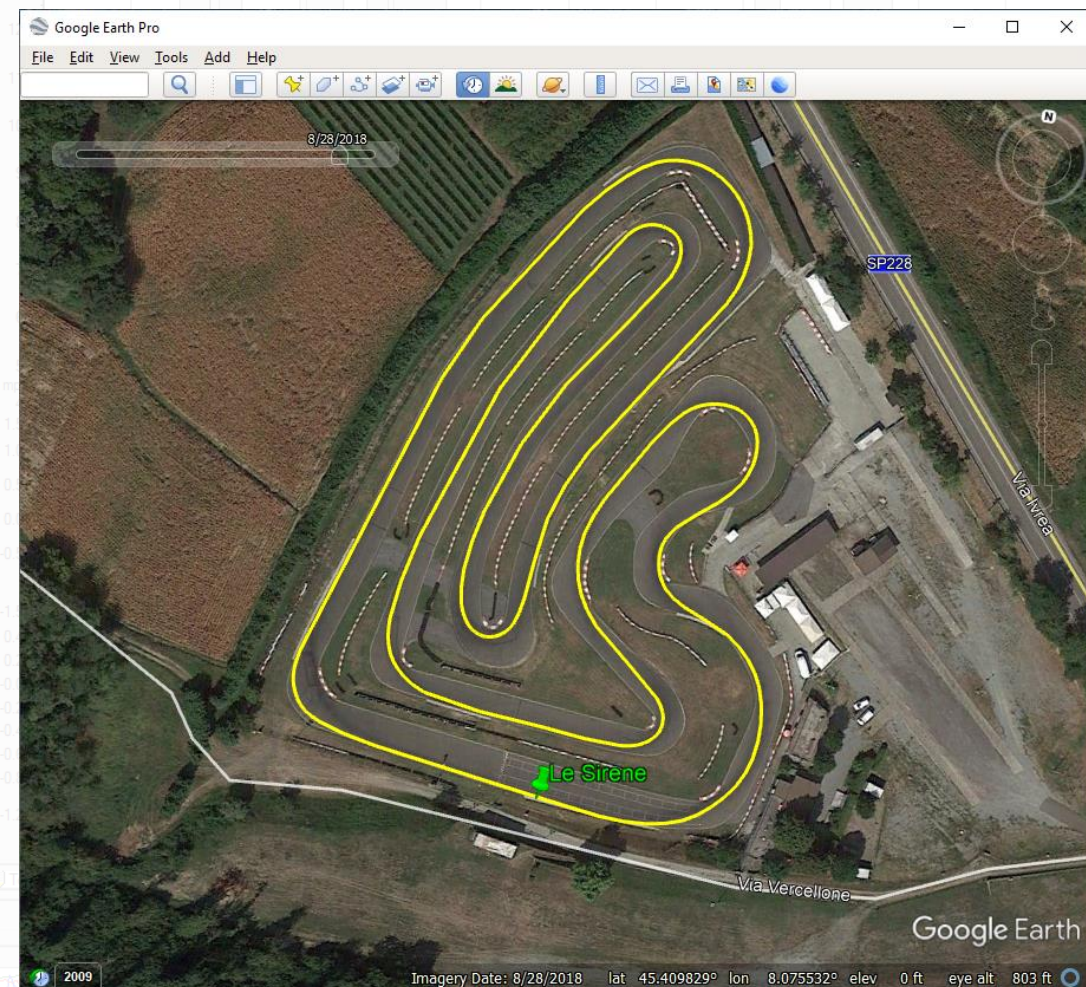
4 02:11.308

Measures:

GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InlineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [#]	0.940
GPS_Neat [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [#]	0.157
GPS_Veh_PosAcc [m/s²]	1.71 E

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2



Measures and laps

Measures Laps User Profiles

☐ Per Lap Color ☐ Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

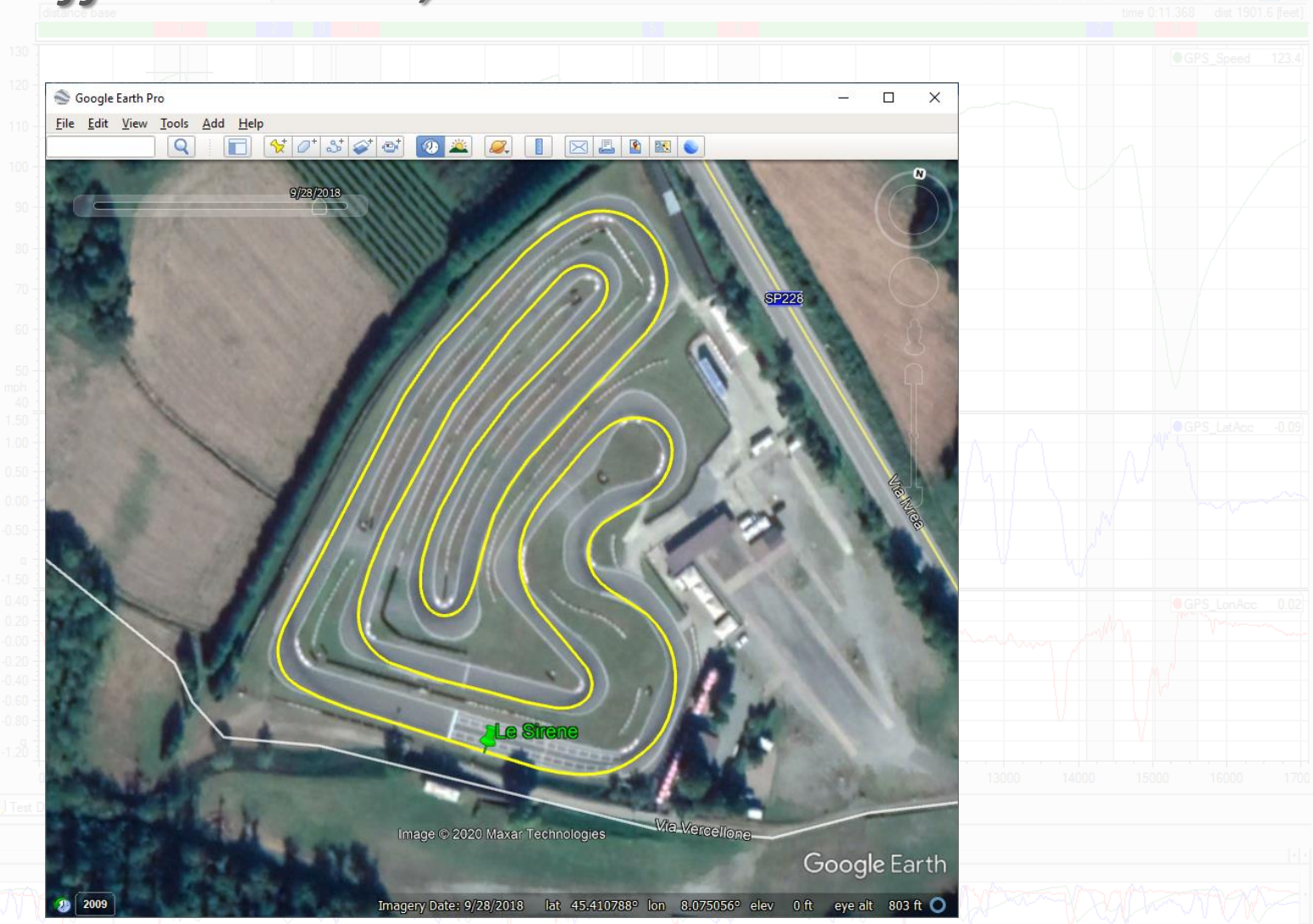
4 02:11.308

Measures:

GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
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LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [ft]	0.940
GPS_Neat [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [ft]	0.157
GPS_Heading [deg]	-23.8

Different Time, Same Tile Provider

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up



Different Time, Same Tile Provider

Measures and laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

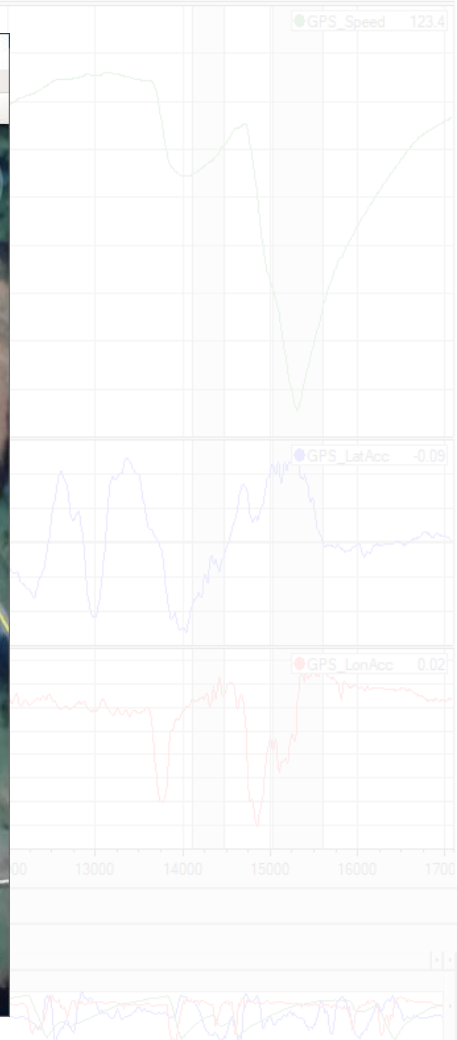
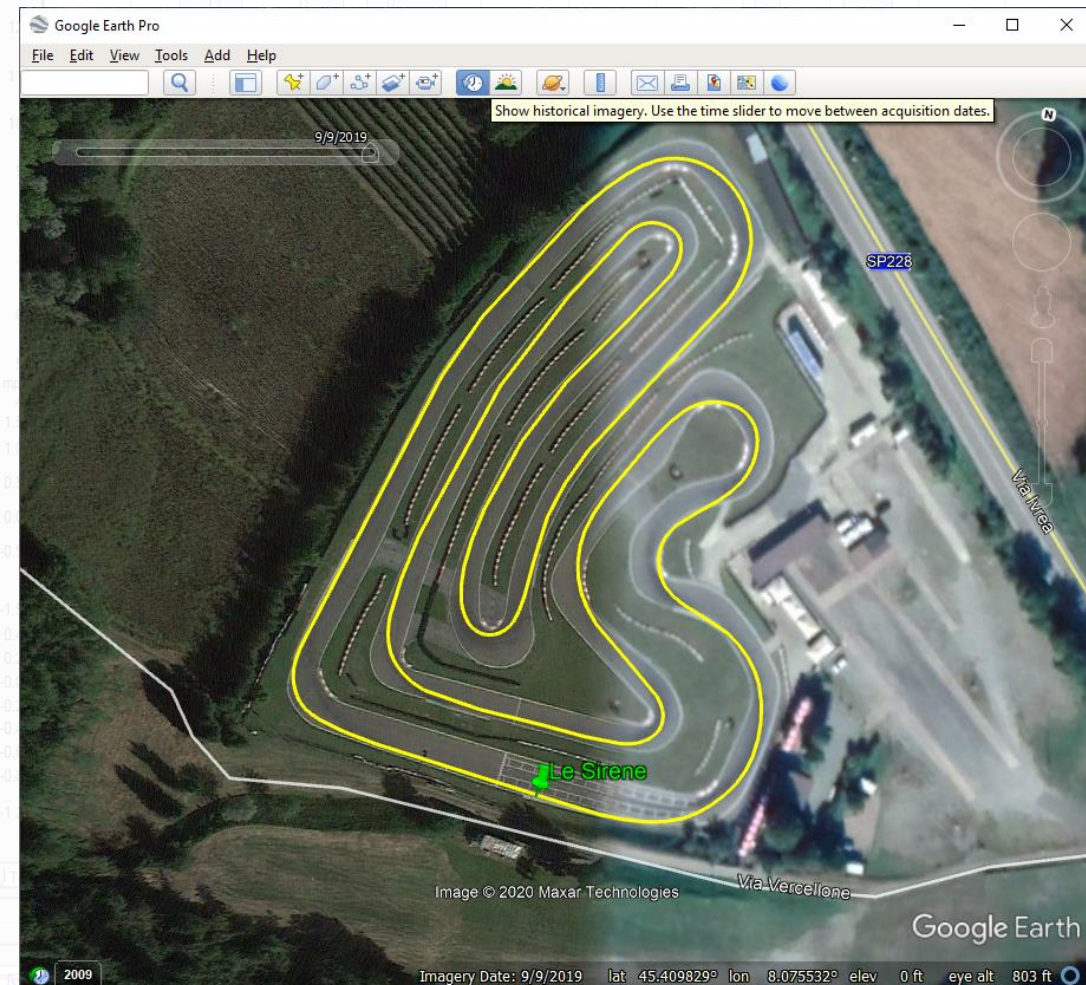
4 02:11.308

Measures:

GPS_Speed [mph]	123.4
RearDiffCk [%]	0.07
ECU_Rpm [rpm]	7062
ECU_Pedal_Pos [%]	99.500
ECU_Water_T [°F]	198
Oil_Temp [°F]	223.0
ECU_Lambda [A/F]	0.85
ECU_Spark_Adv [deg]	23.50
ECU_Intake_Air_T [°F]	89.6
External_Voltage [V]	13.0
GearRatio [ratio]	1.00
LambdaFiltered []	0.851
Spark_AdvFiltered [deg]	23.50
OverRev [secs]	0.00
OverRevFiltered [secs]	0.00
ECU_SpeedCheckFilt [diff]	2.2
AFR [ratio]	12.51
AFR_Filt [ratio]	12.51
AvgRearWheelSpeed [mph]	121.52
RPS_Diff [%]	100.50
ECU_SpeedCheck [diff]	2.2
GPS_LatAcc [g]	-0.09
GPS_LonAcc [g]	0.02
GPS_Slope [deg]	0.22
InLineAcc [g]	-0.02
LateralAcc [g]	-0.17
VerticalAcc [g]	-1.43
PitchRate [deg/s]	-0.6
RollRate [deg/s]	0.8
YawRate [deg/s]	-0.2
GPS_PosAccuracy [#]	0.940
GPS_Neat [#]	15
GPS_Gyro [deg/s]	-0.9
GPS_Heading [deg]	-23.8
GPS_Altitude [m]	142.96
GPS_SpdAccuracy [#]	0.157
GPS1_Wide_Passout [count]	171 C

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

2





Live Race Studio 3 Analysis Public Beta

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LearnFast™ E-Training Video



FileDataViewMapModifyOptionsGPSSoftwareStudioWindow?

Measures and laps

MeasuresLapsUser Profiles

Per Lap Color

Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

4 02:11.3

Measures:

GPS_Speed [km/h]

RearDiffCk [rpm]

ECU_Rpm [rpm]

ECU_Pedal_Pos [%]

ECU_Water_T [°F]

Oil_Temp [°F]

ECU_Lambda [A/F]

ECU_Spark_Adv [deg]

ECU_Intake_Air_T [°F]

External_Voltage [V]

GearRatio [ratio]

LambdaFiltered []

Spark_AdvFiltered [deg]

7062

99.500

100

0.85

13.0

1.00

60

23.50

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

[distance base]

time 0:11.368

dist 1301.6 feet

123.4

0.09

0.02

1700

1.4

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Tuesday Sept 1st, 2020

10:00am Pac / 1:00pm East



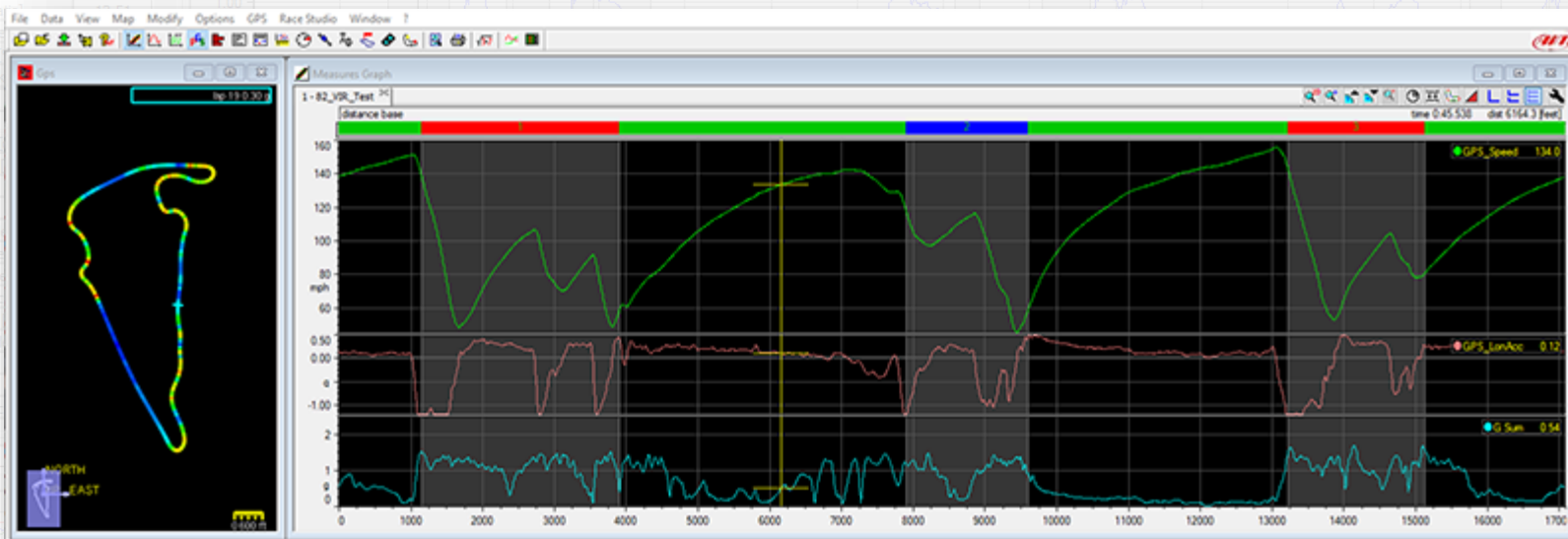
Co-Host

Kenton Koch

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Identifying Correct Driving Techniques





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